

**FIG.1**  
PRIOR ART

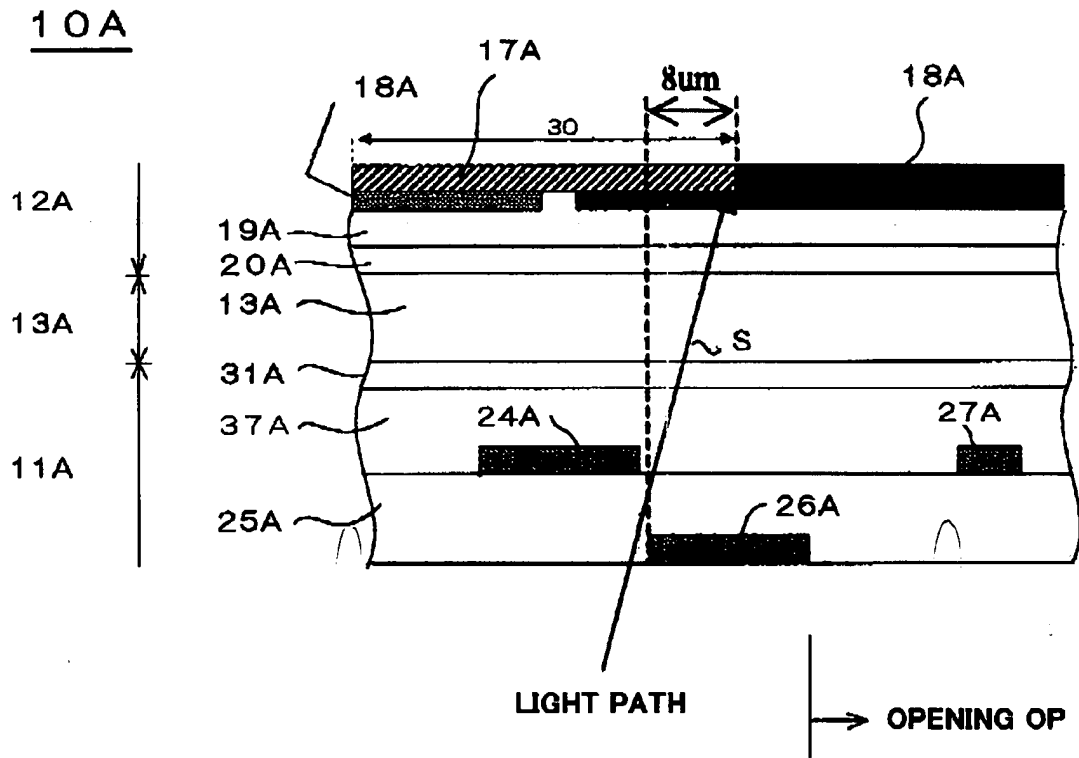
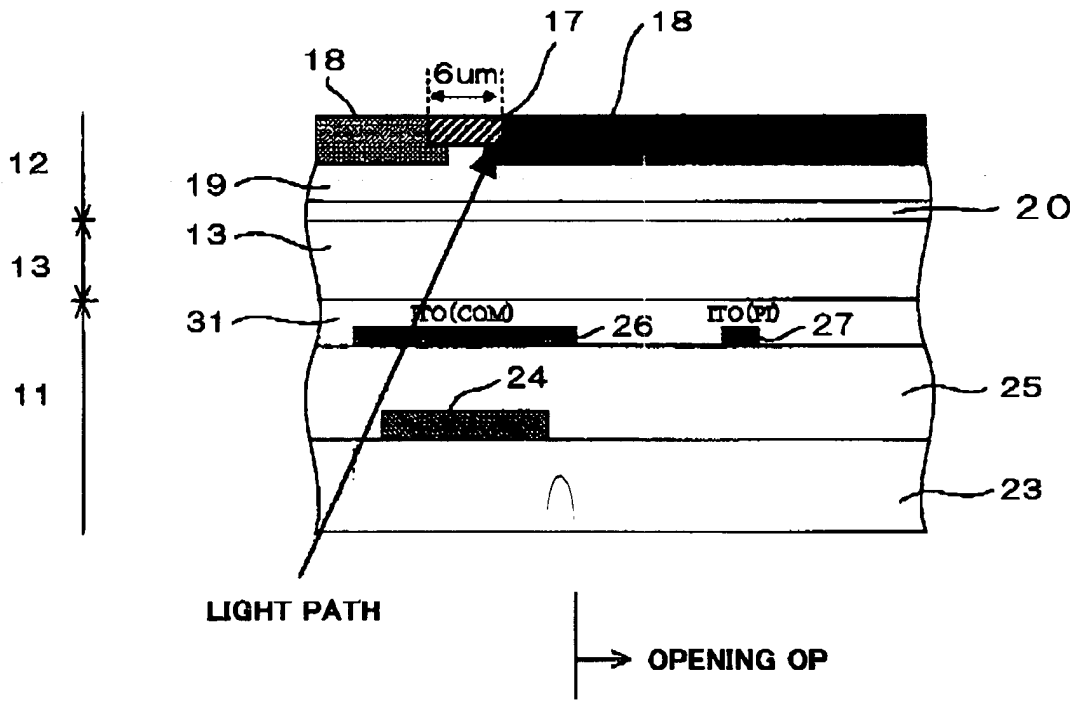


FIG.2

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FIG.3

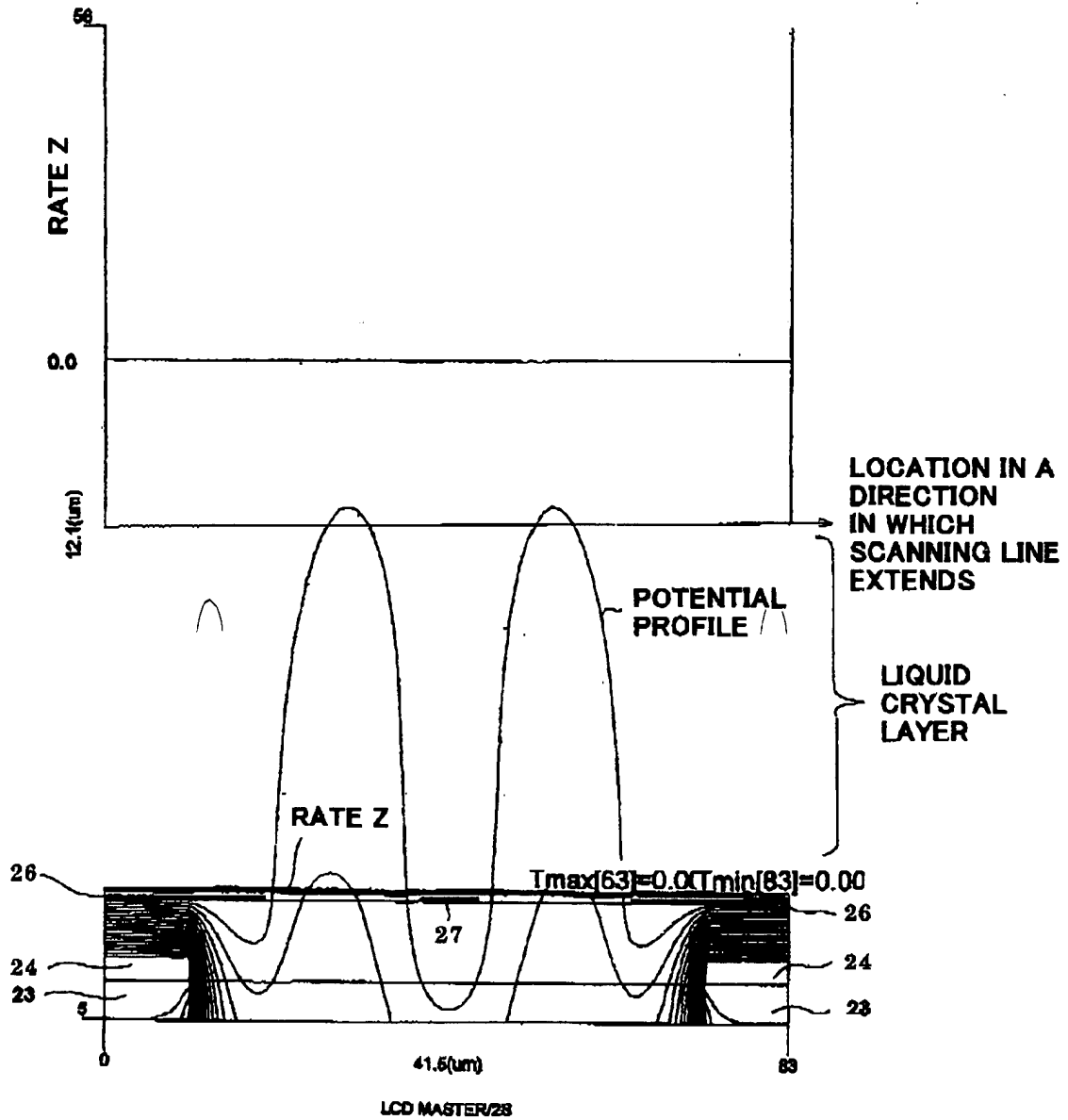
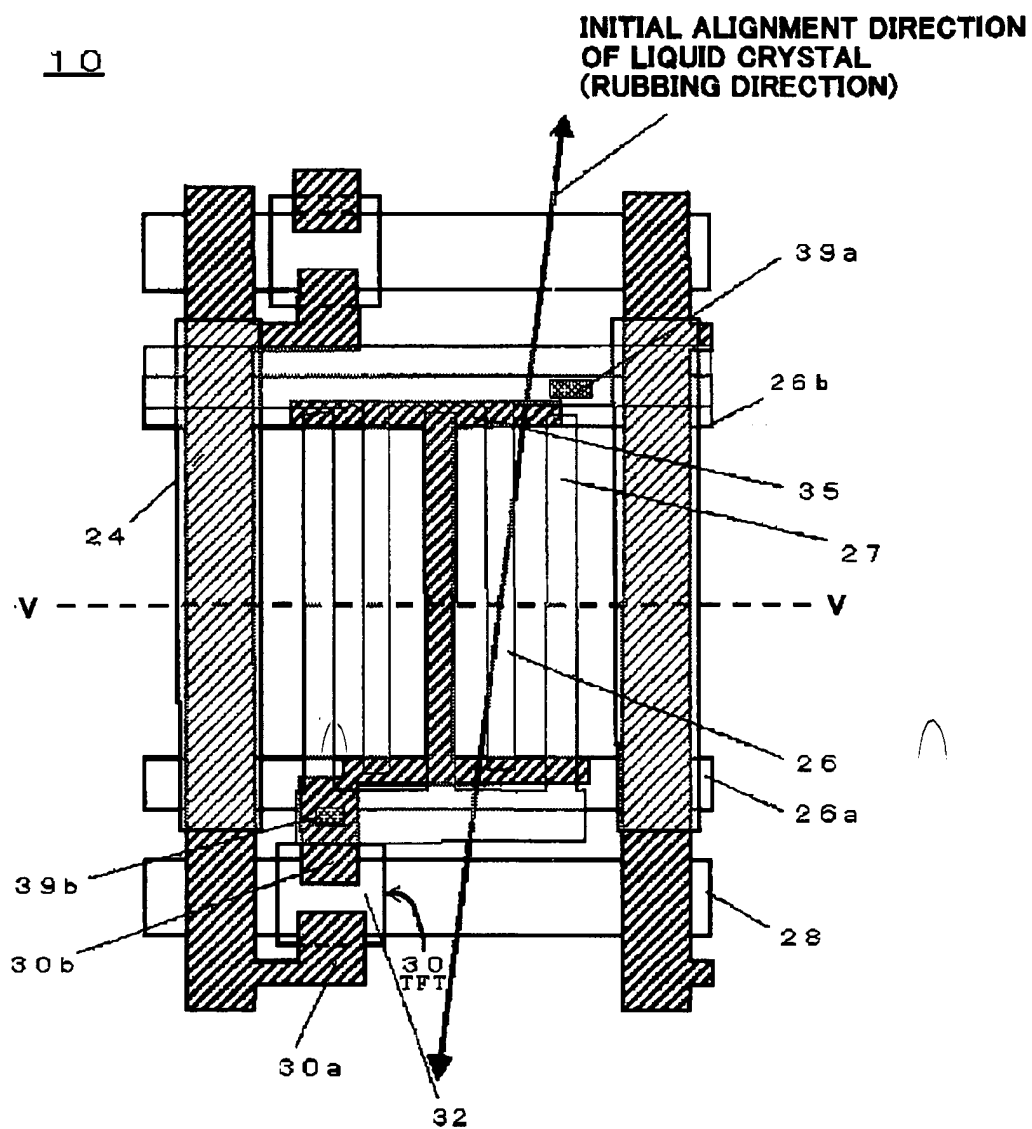


FIG.4



10

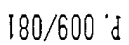
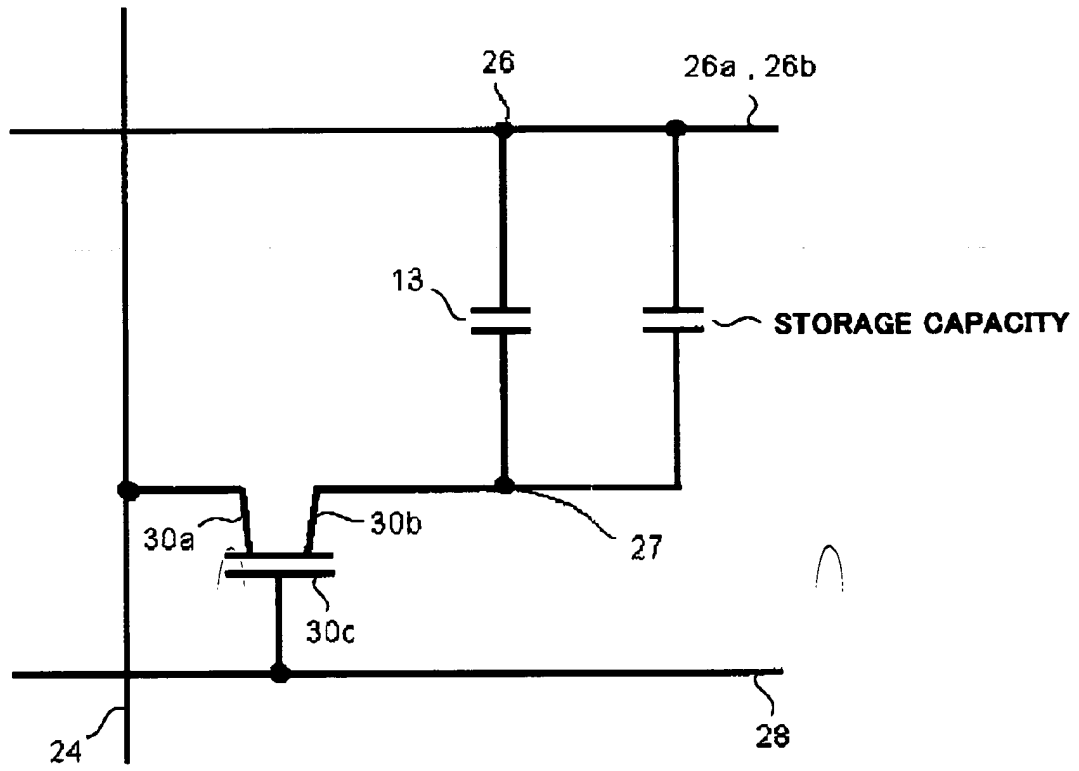


FIG.6

10



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FIG. 7

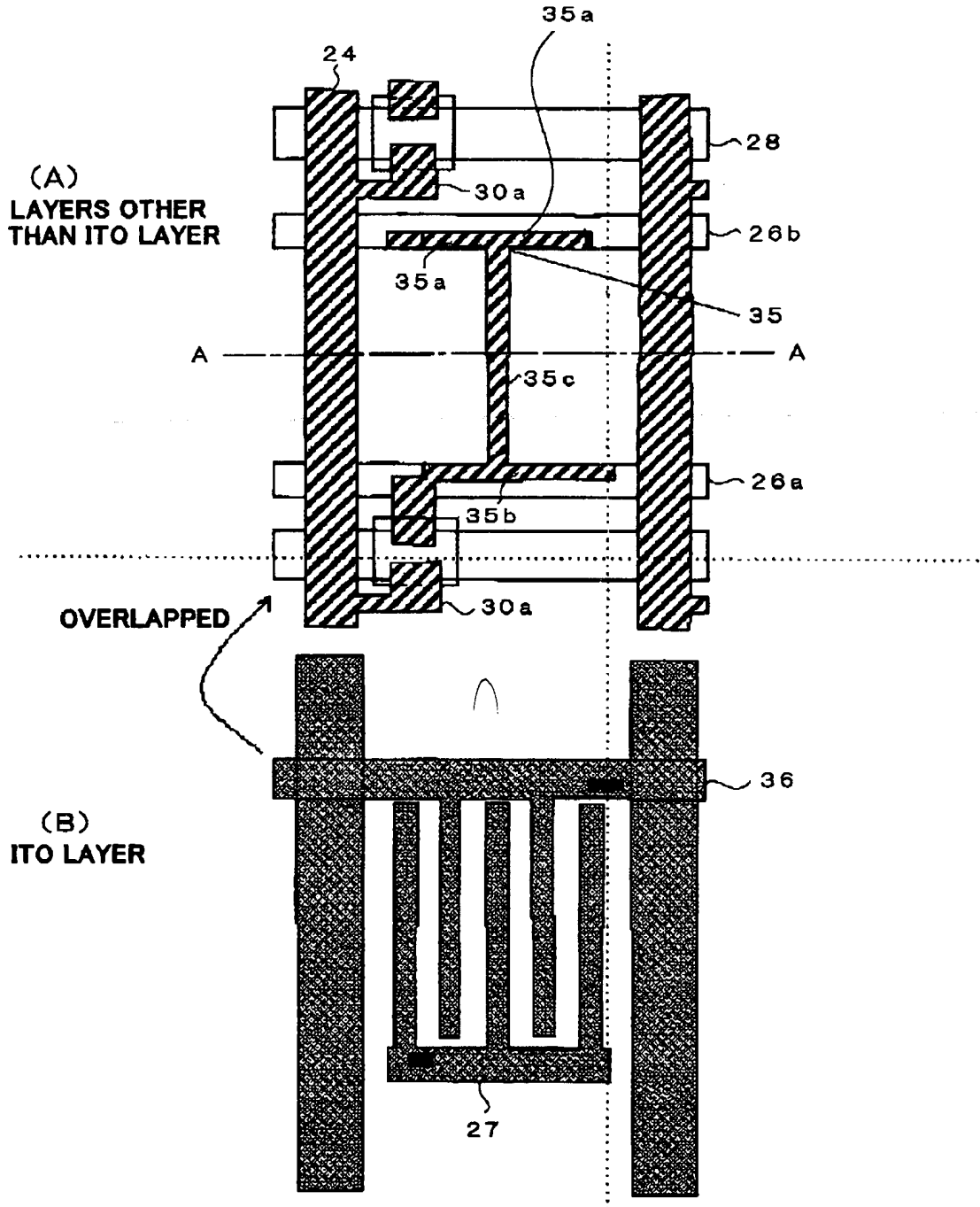
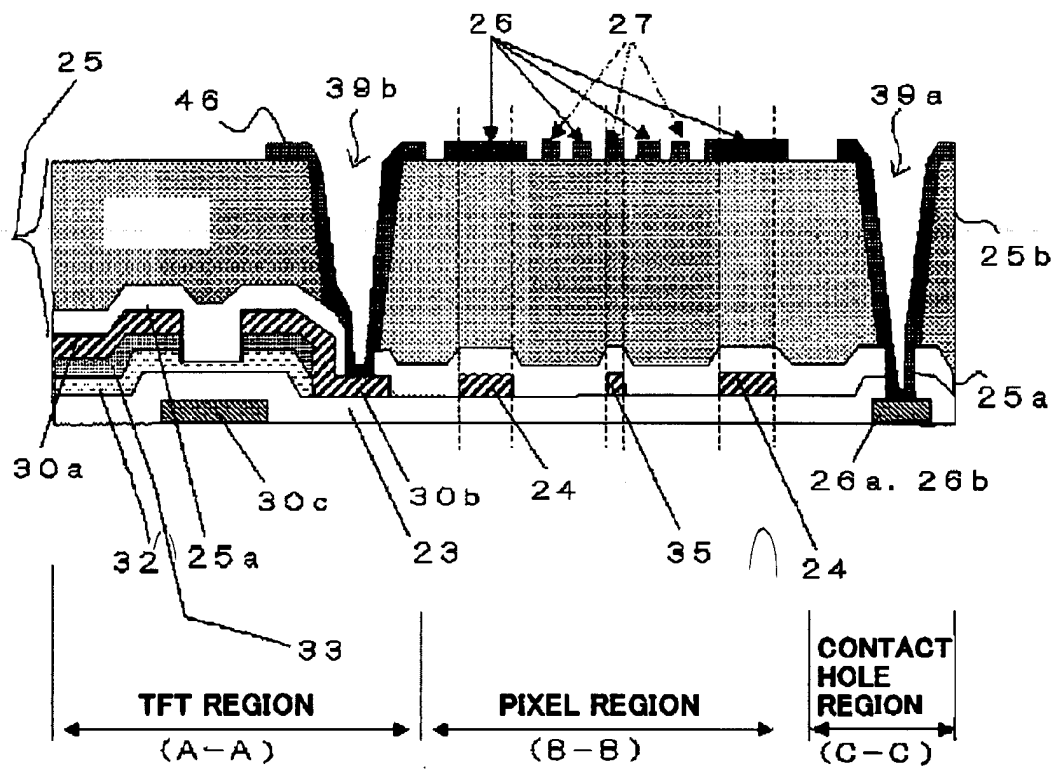


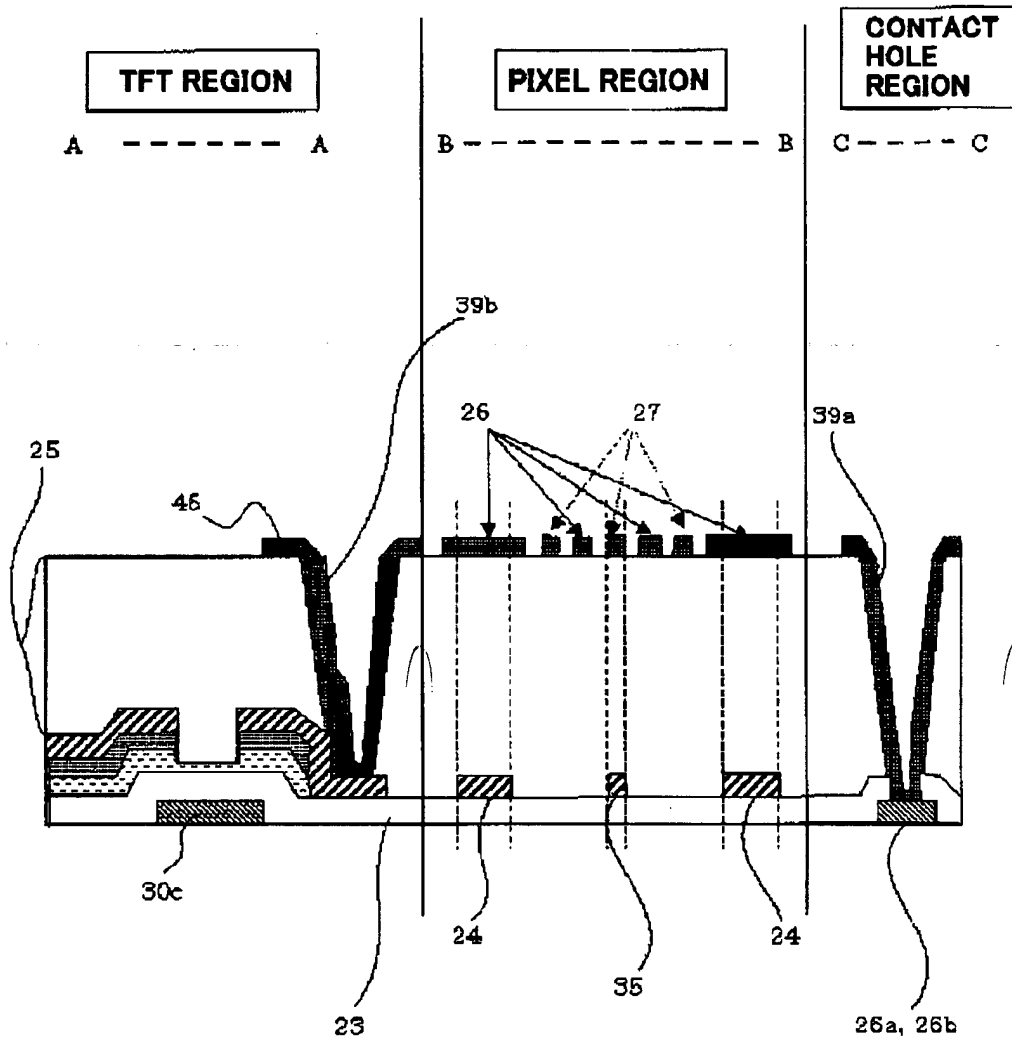
FIG.8



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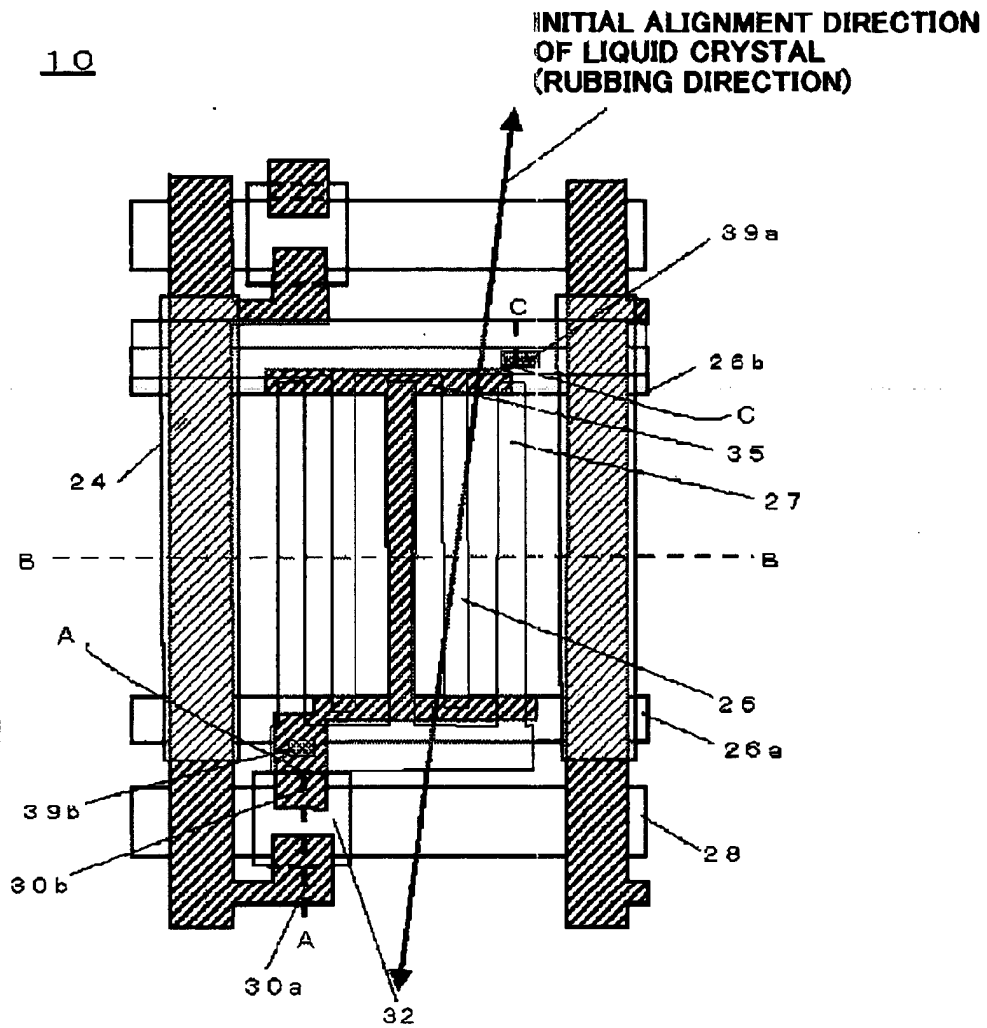
FIG.9



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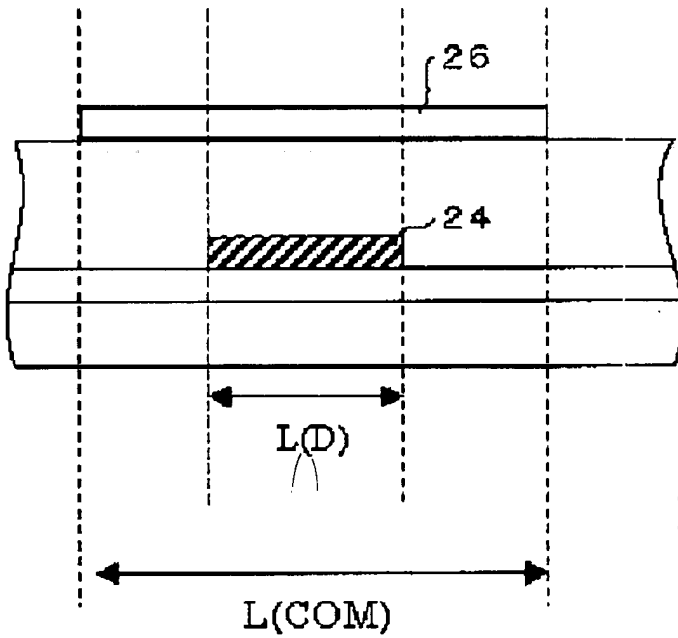
FIG.10



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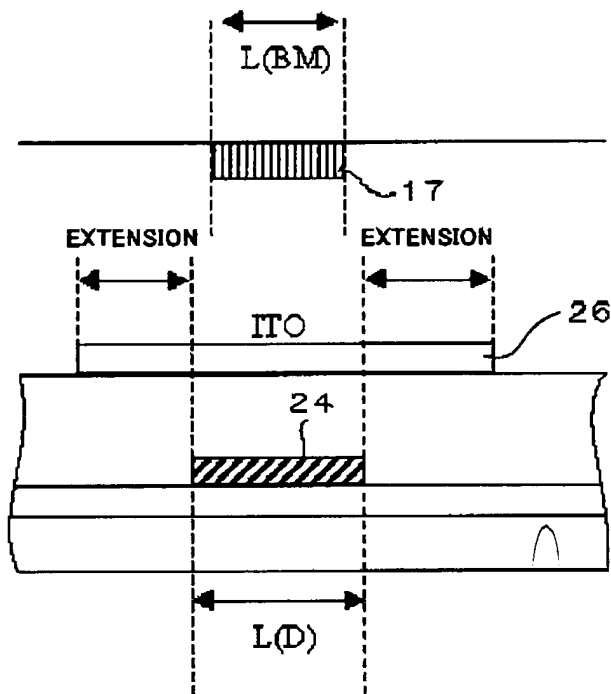
10081800.022202

FIG.11



$$L(COM) > L(D)$$

FIG.12

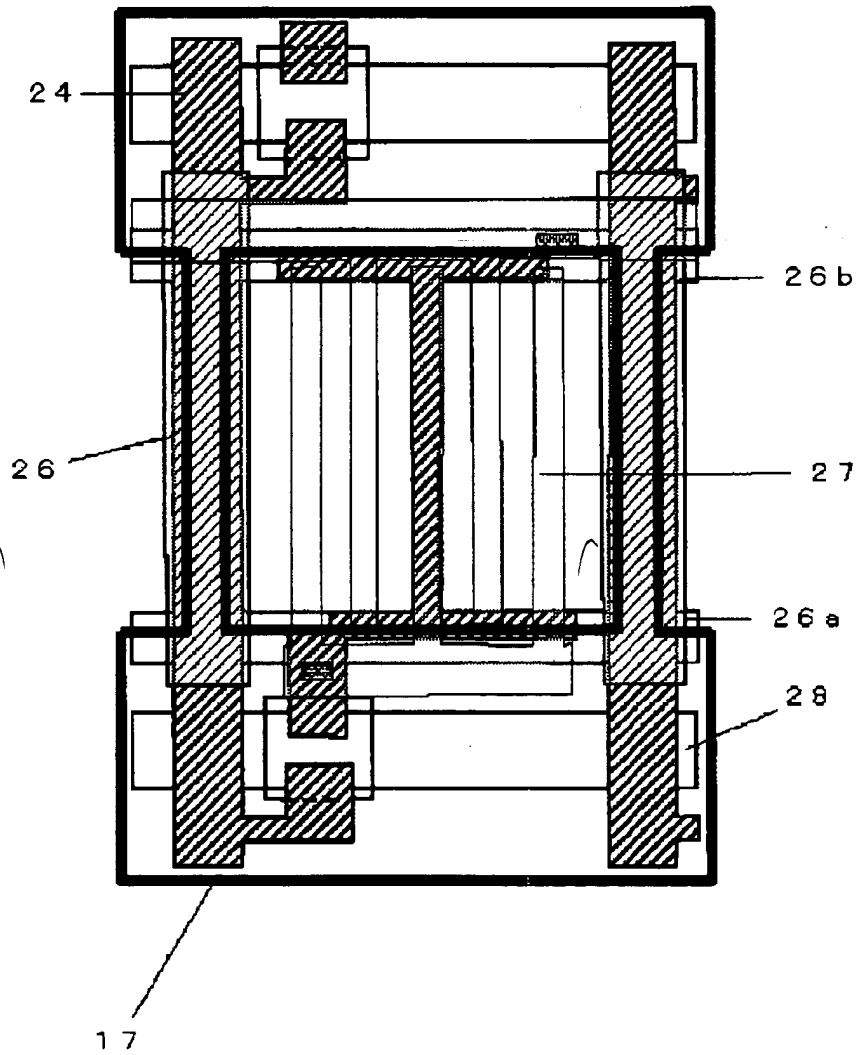


$$L(D) > L(BM)$$

10001800.022202

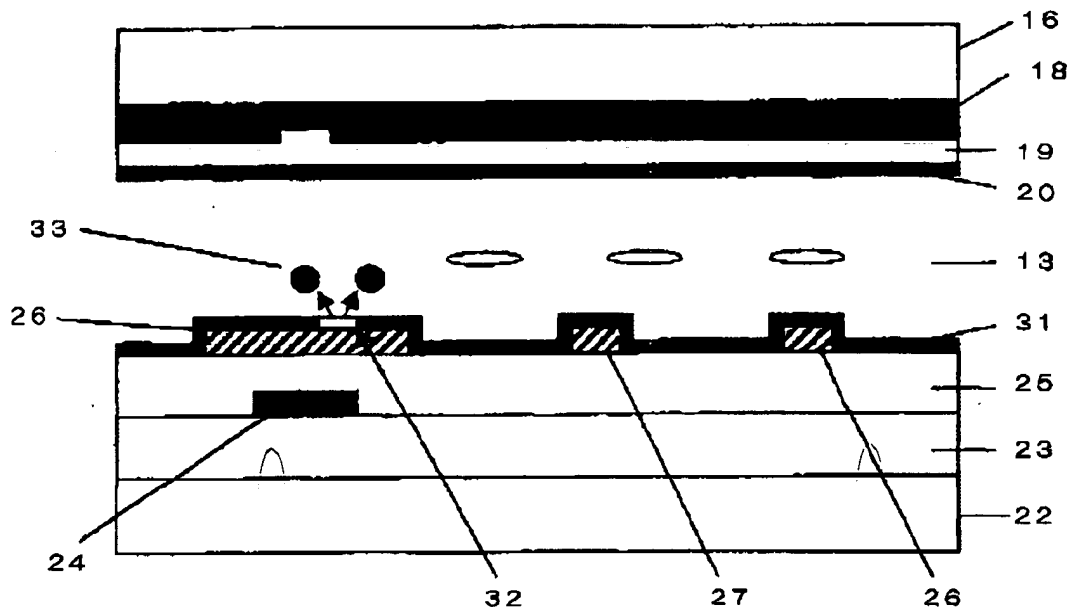
FIG.13

10



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FIG.14



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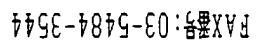


FIG.16

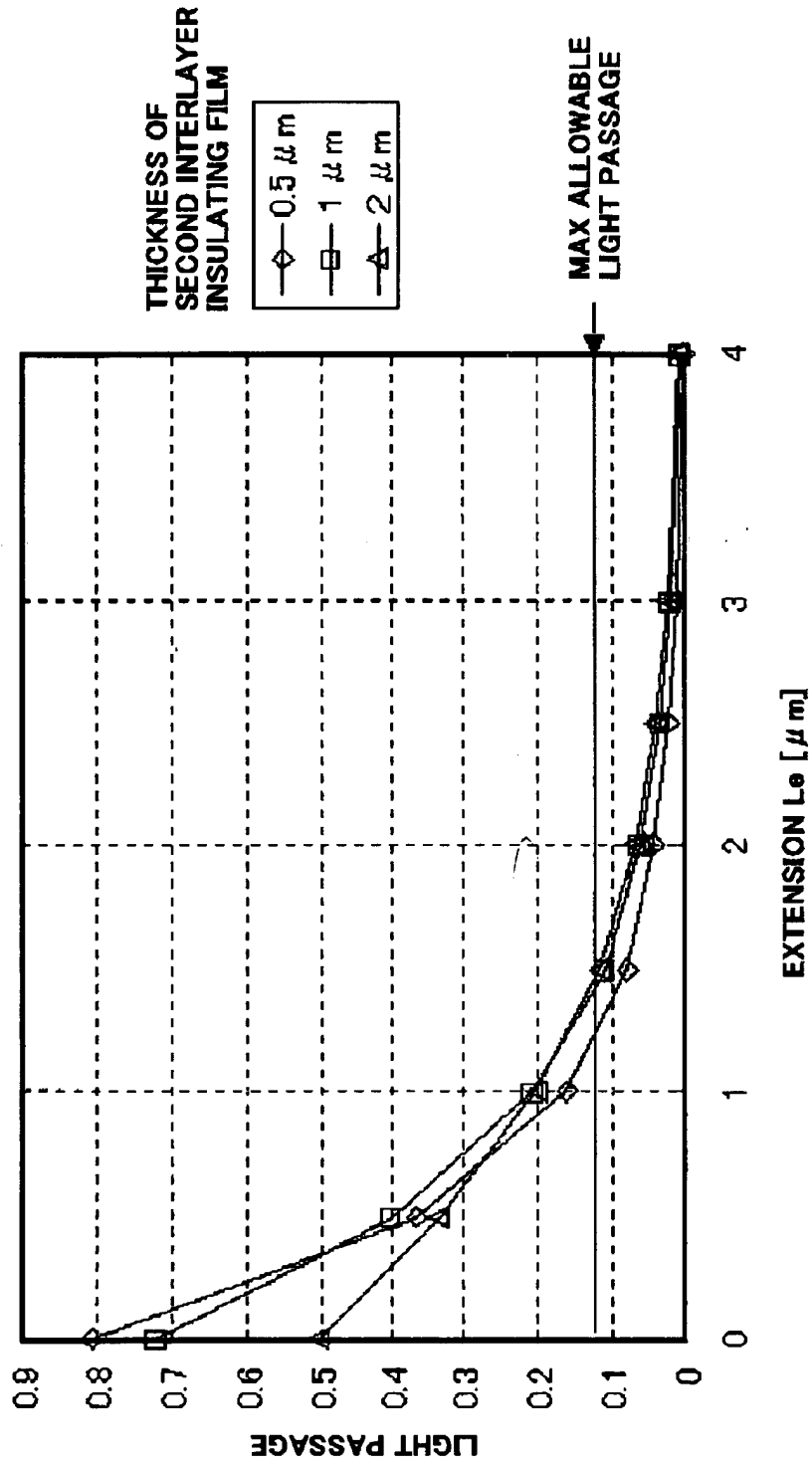
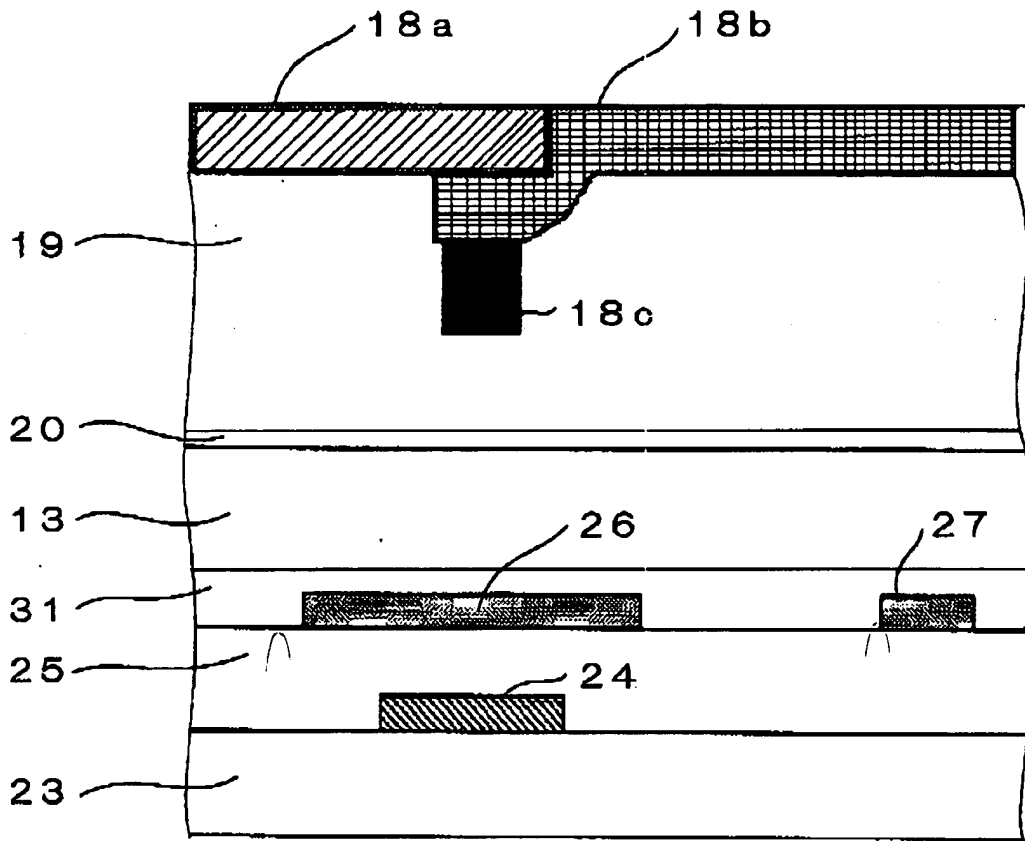


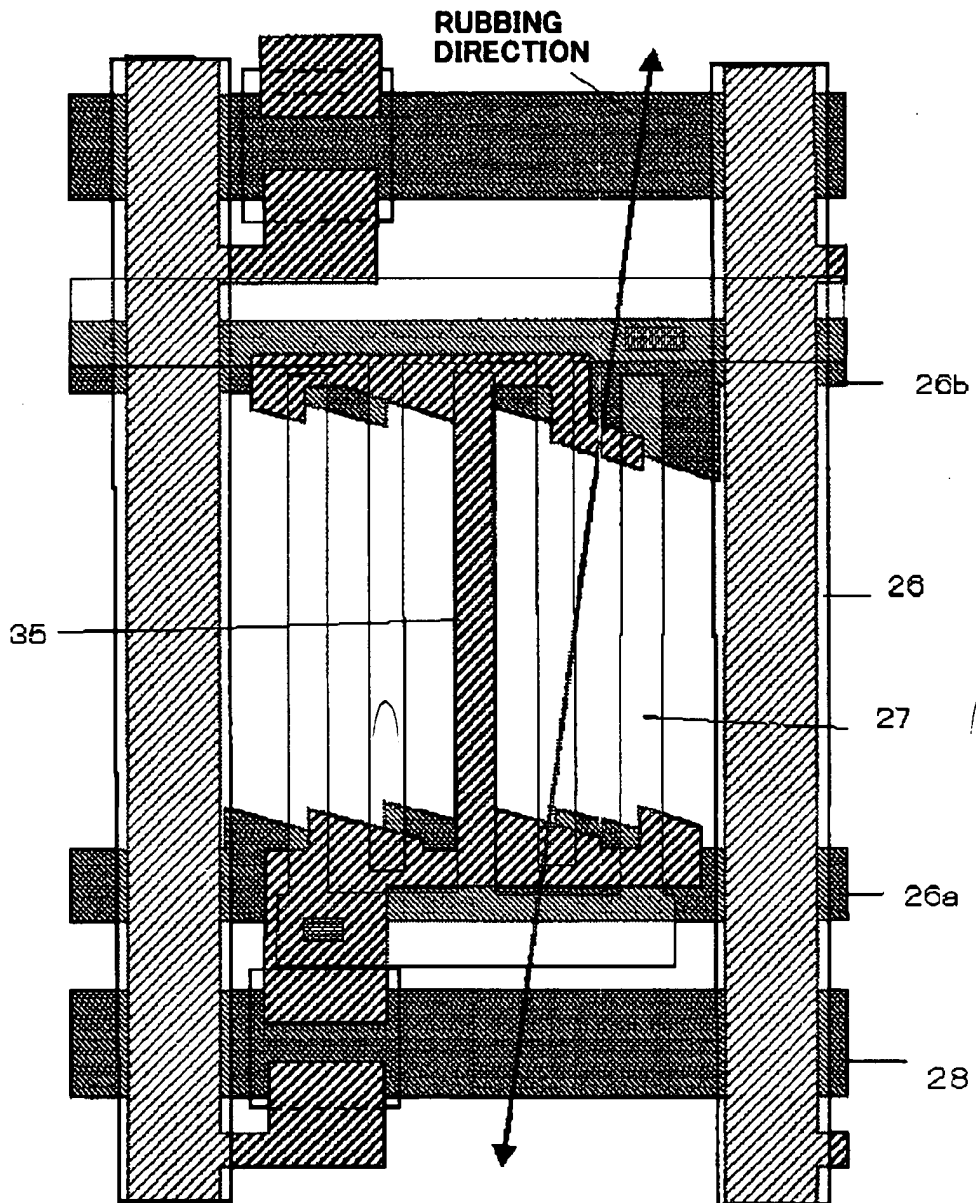


FIG.17



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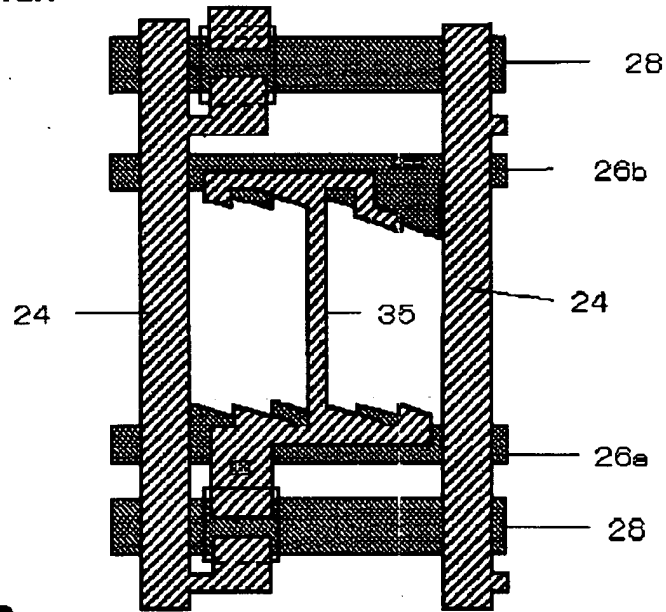
FIG.18



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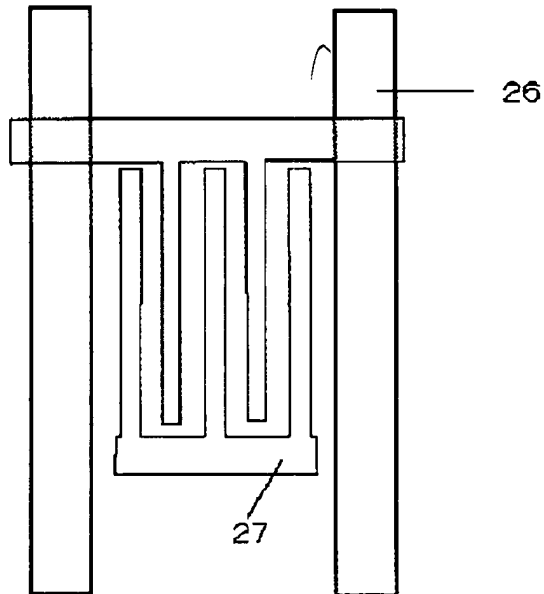
**FIG.19A**

LAYERS OTHER  
THAN ITO LAYER



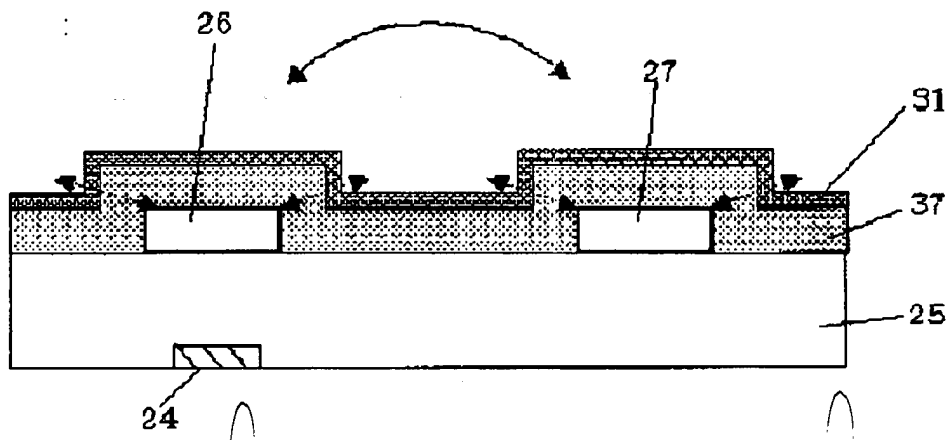
**FIG.19B**

ITO LAYER



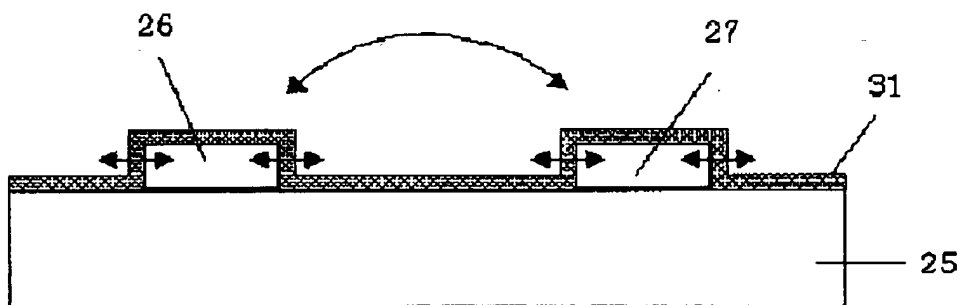
10081800.022202

FIG.20



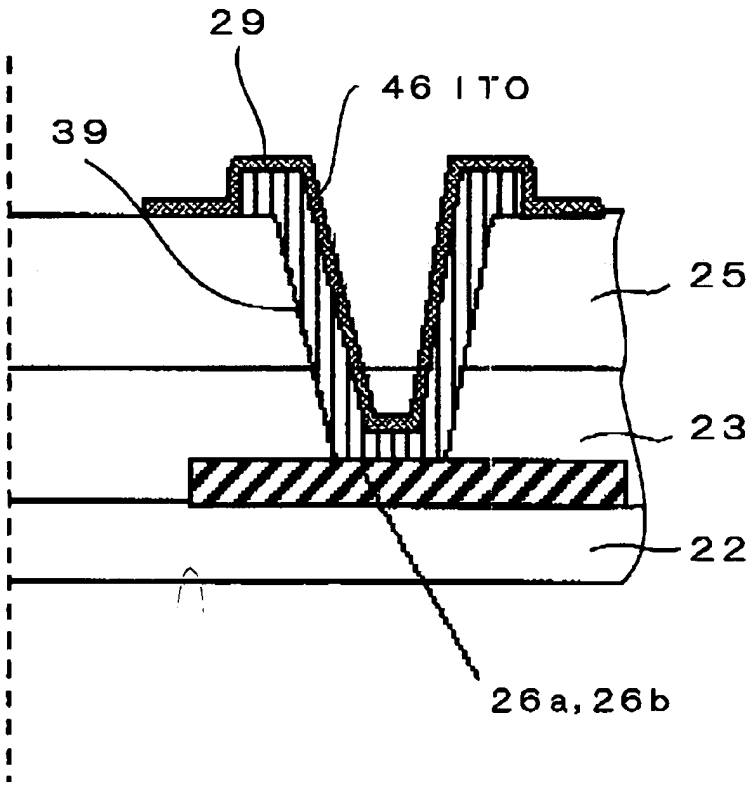
10081800.022202

FIG.21



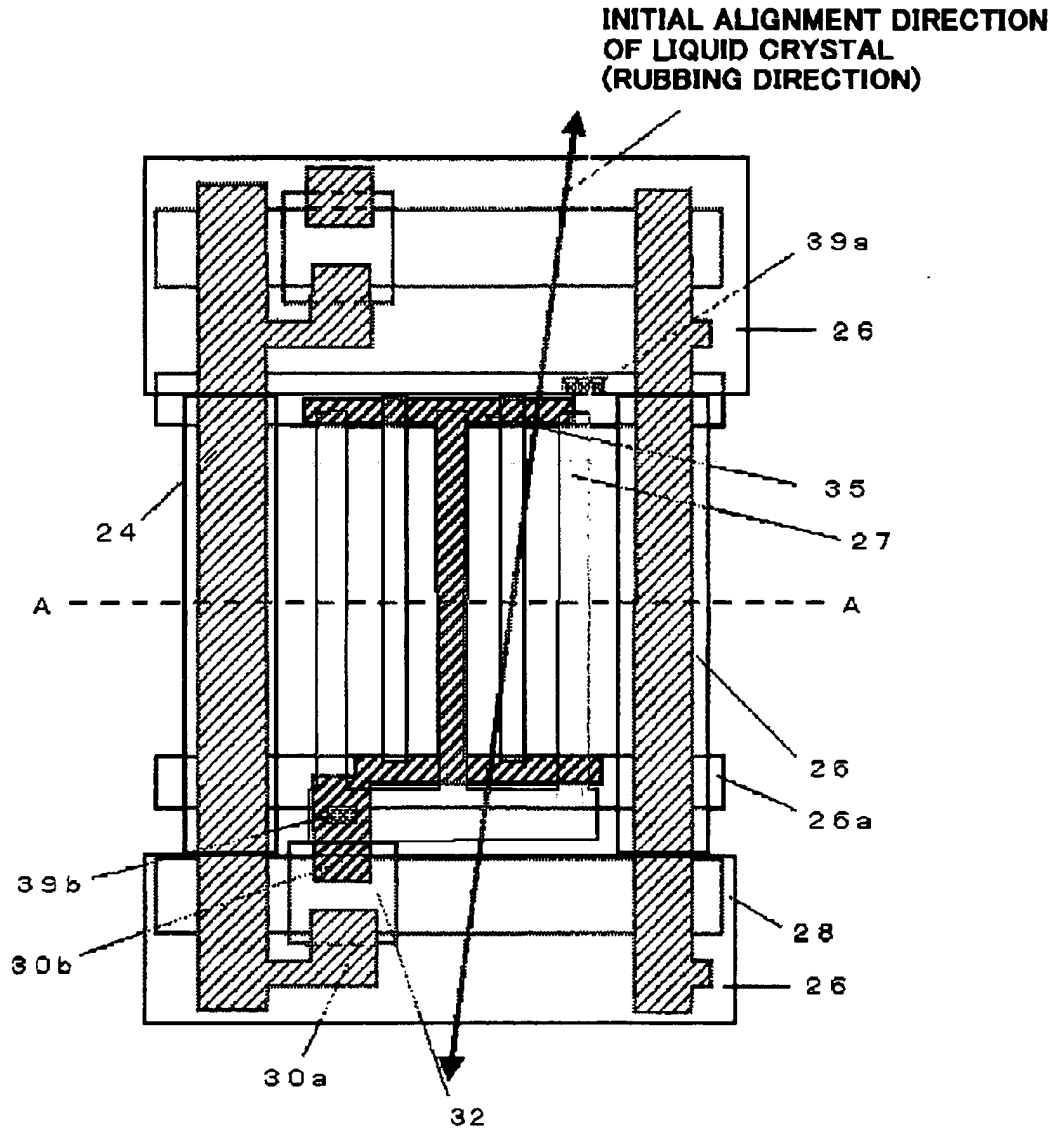
10031800.022202

FIG.22



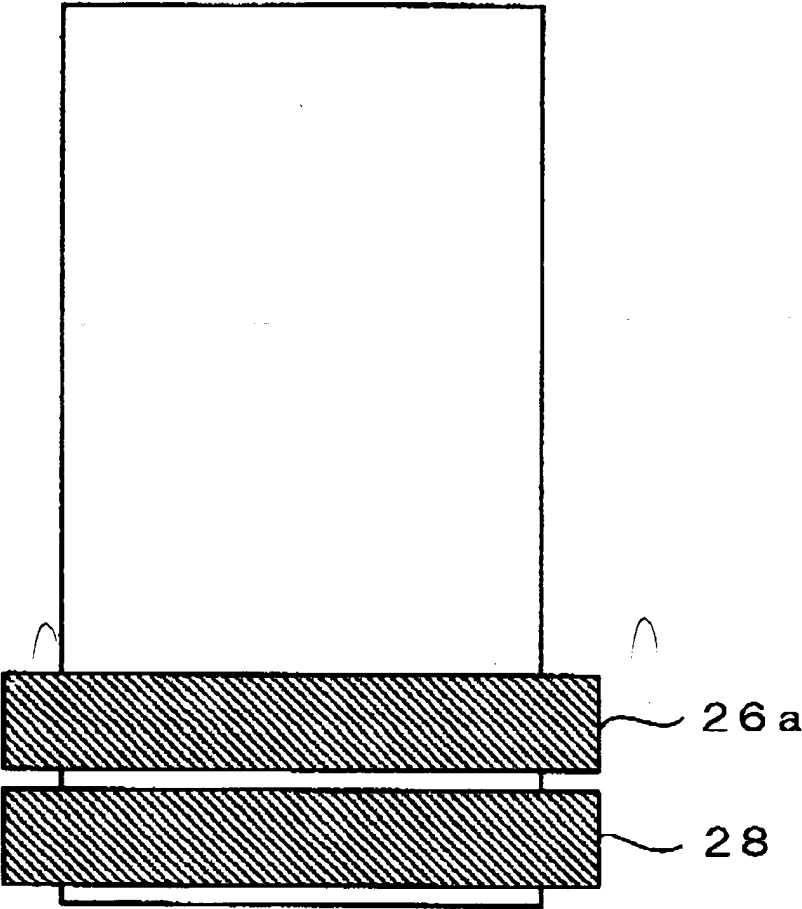
10081800.022202

FIG.23



10081800.022202

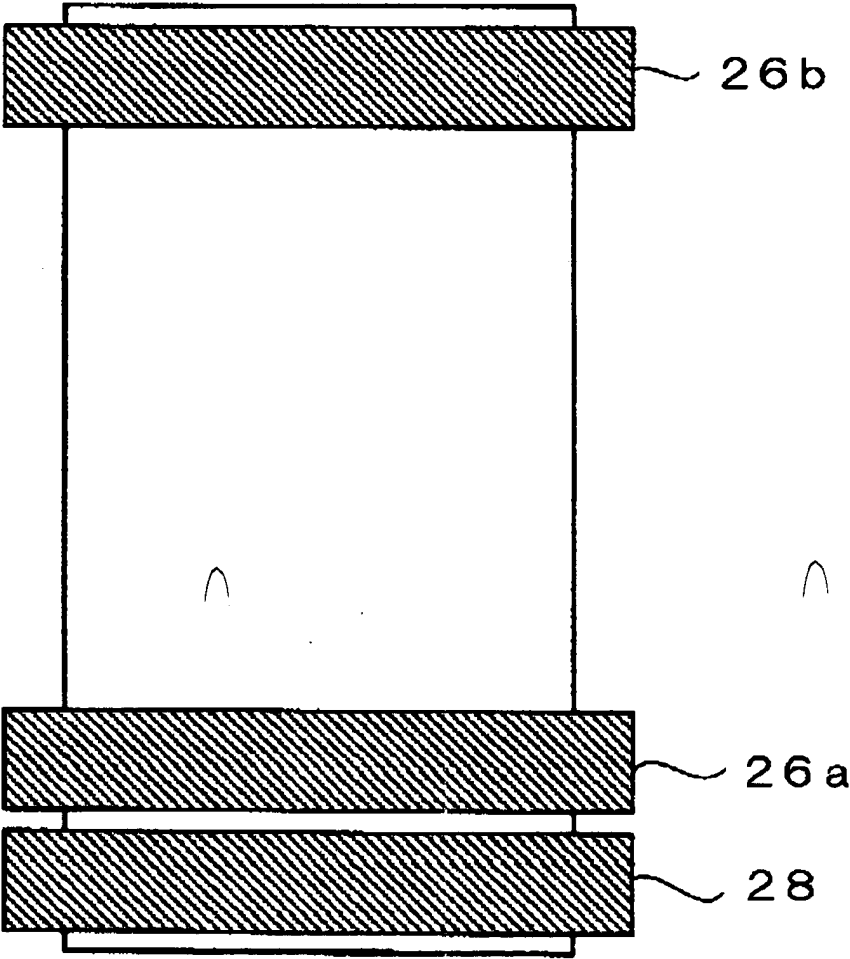
FIG.24



10081800.022202

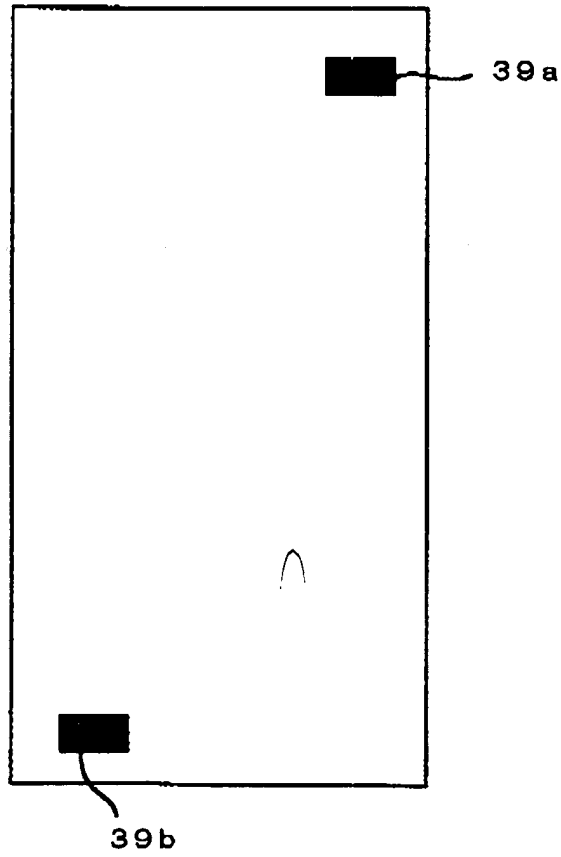


FIG.25



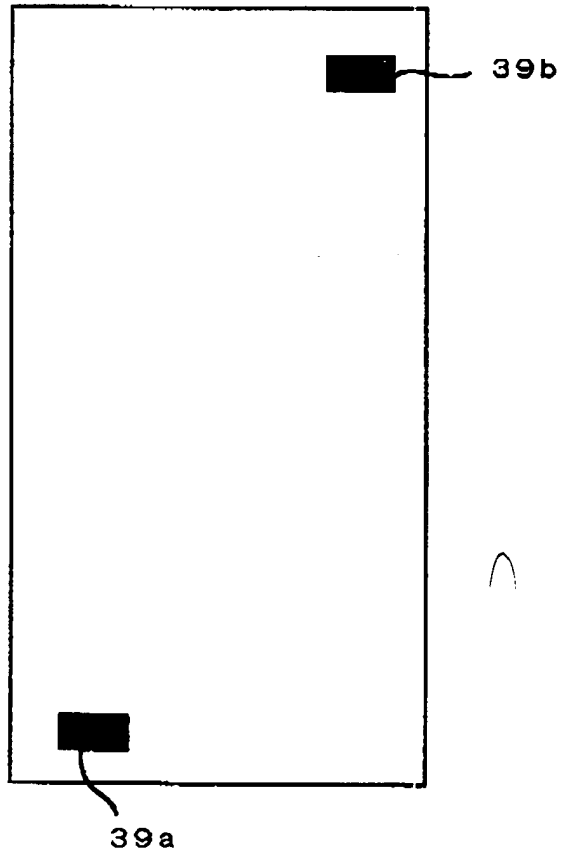
10081800.022222

FIG.26

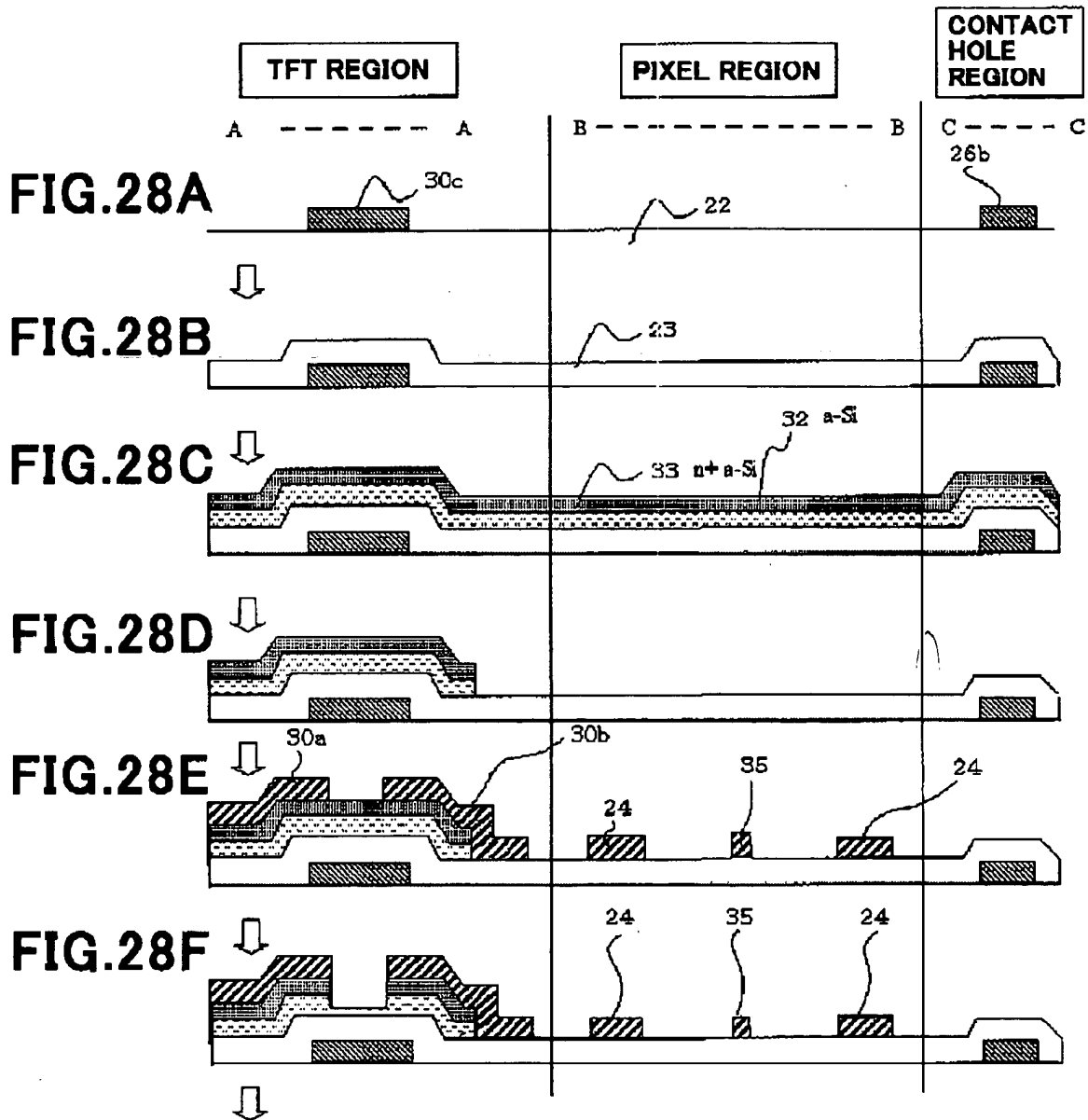


10081800.022202

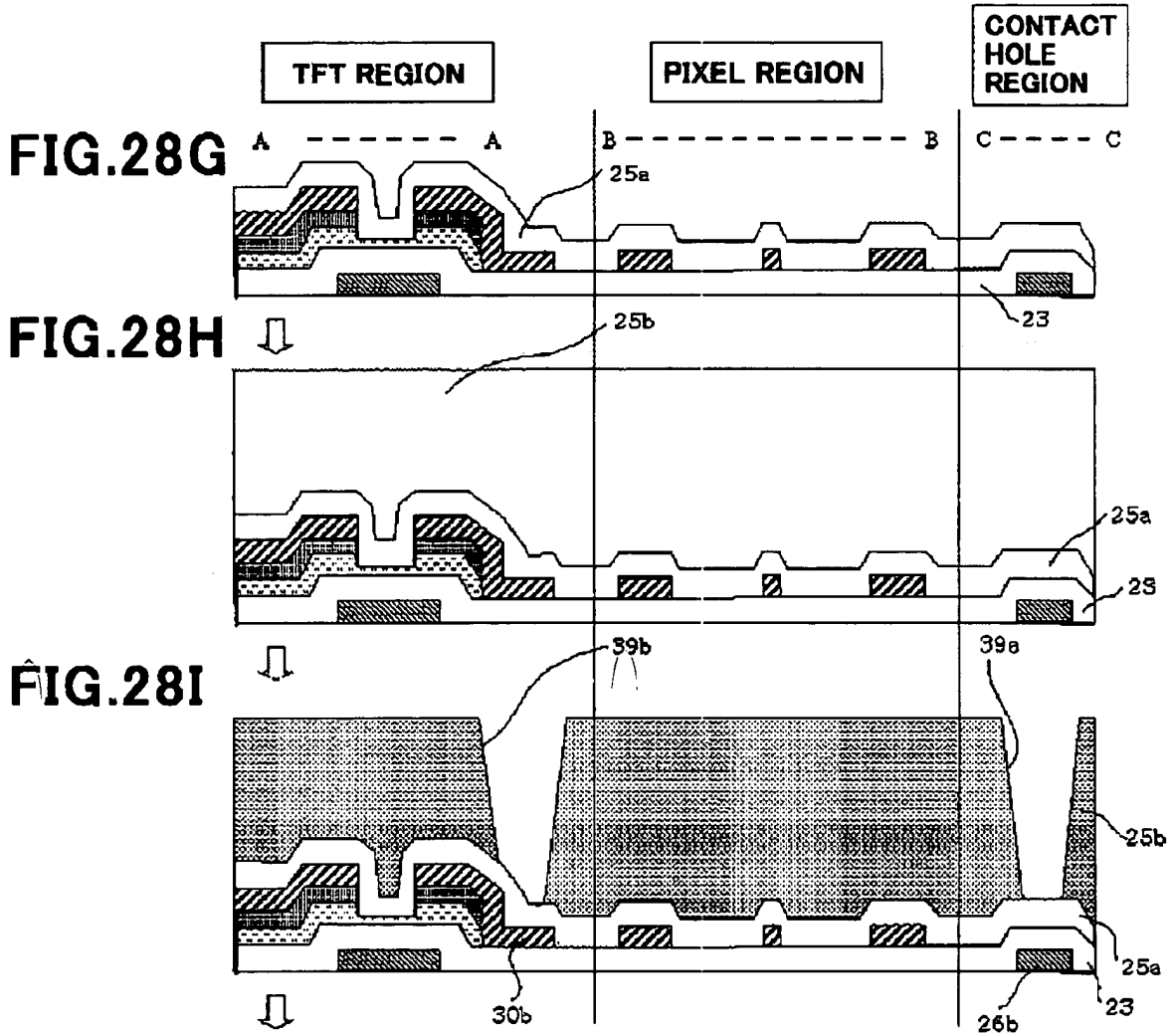
FIG.27



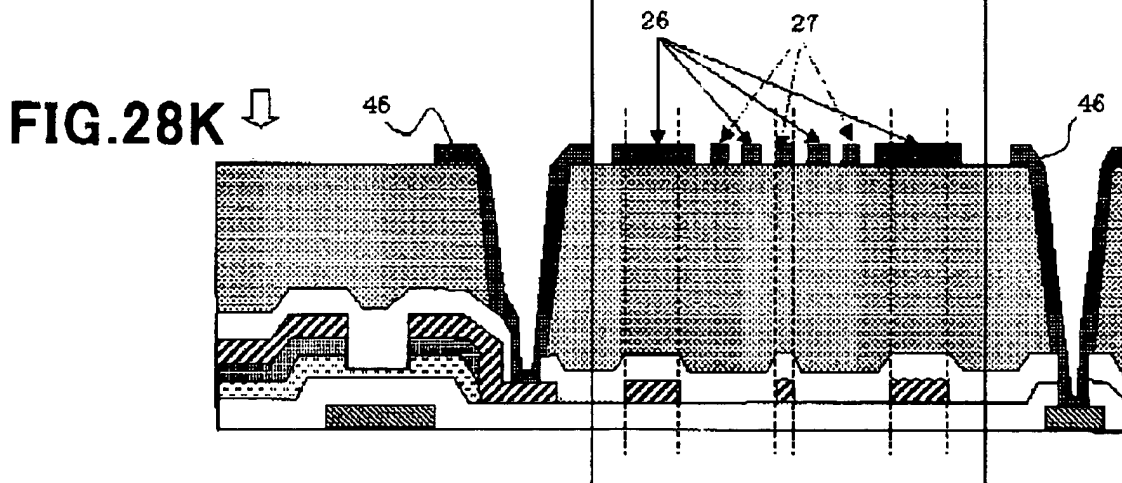
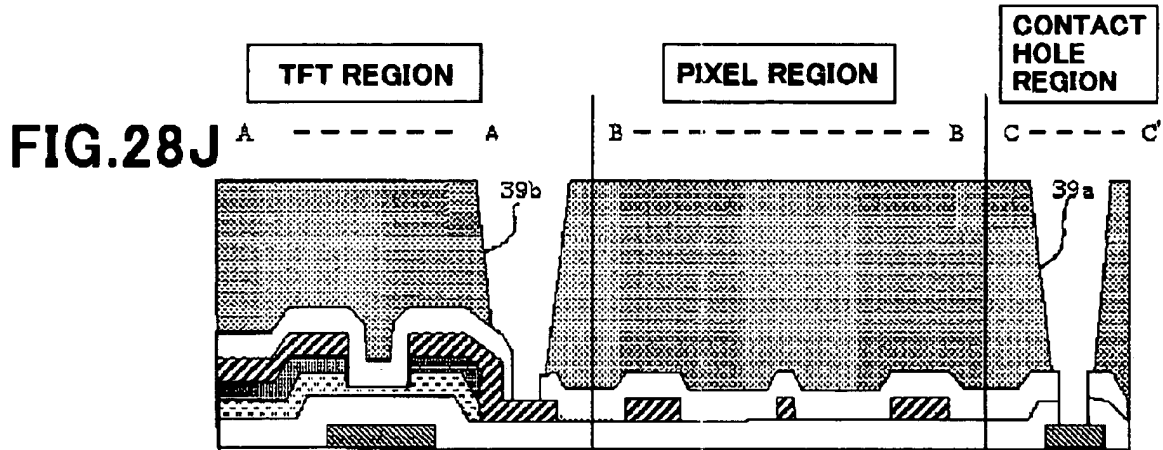
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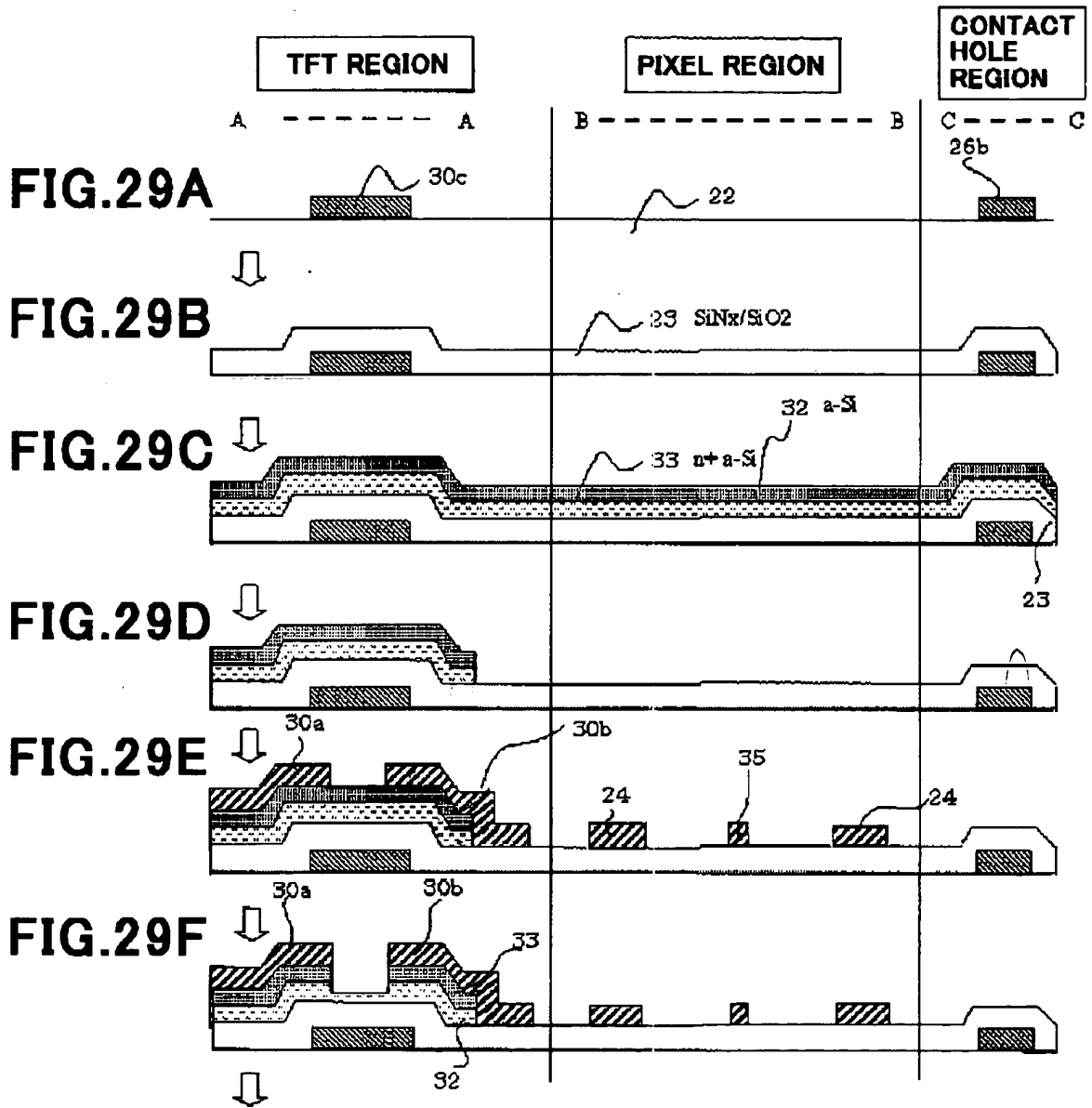
10081800, 022202



10081800.022202



10081800.022202



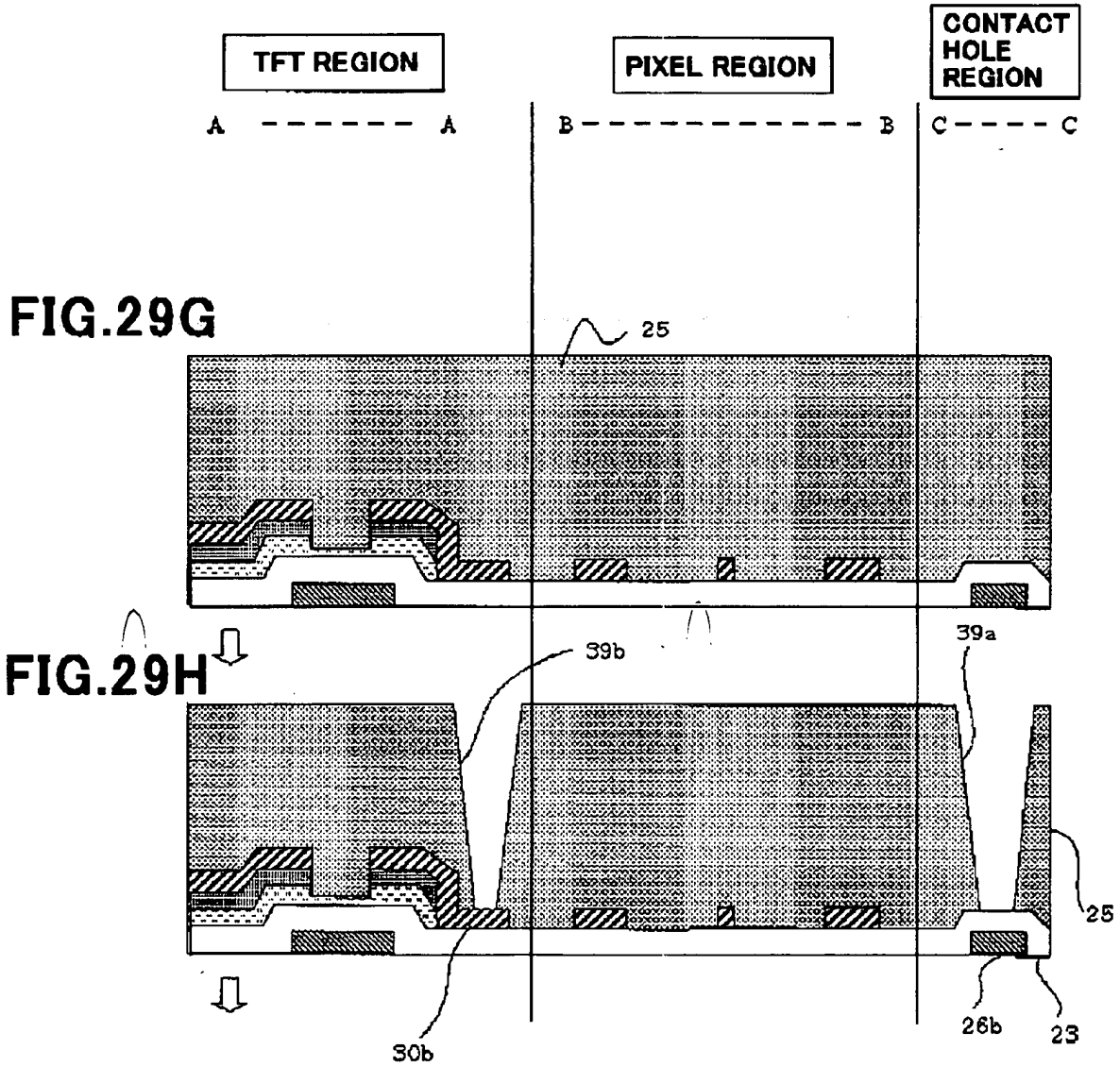
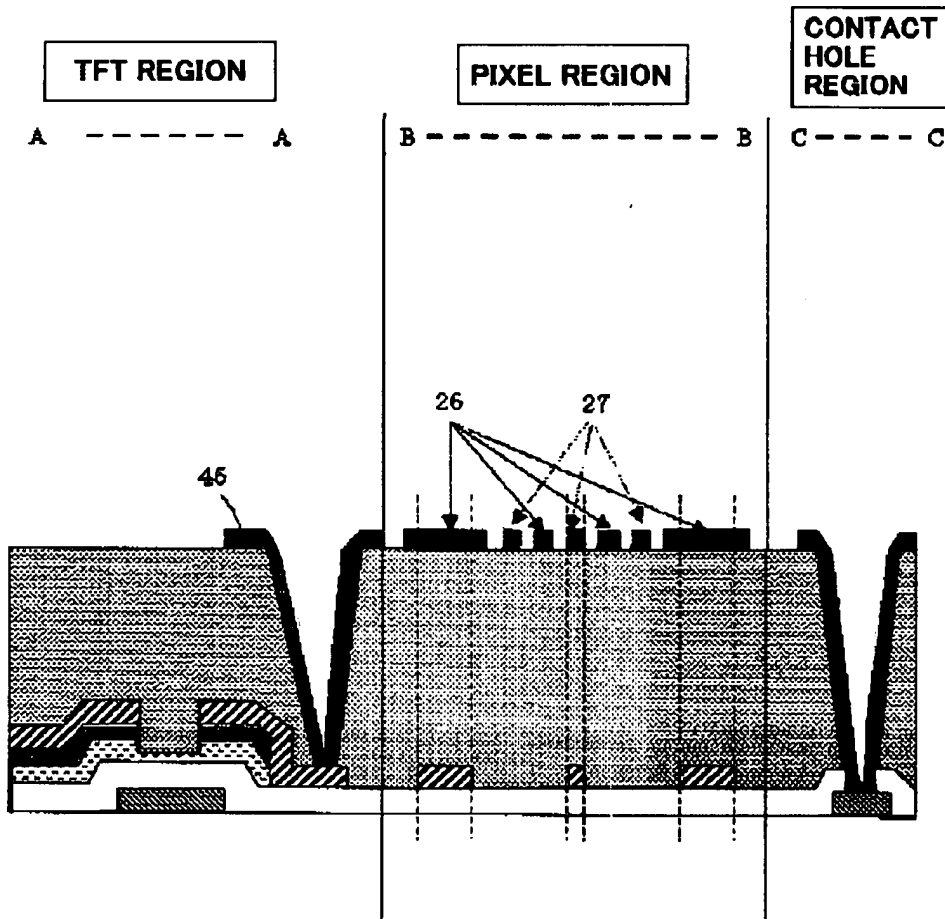
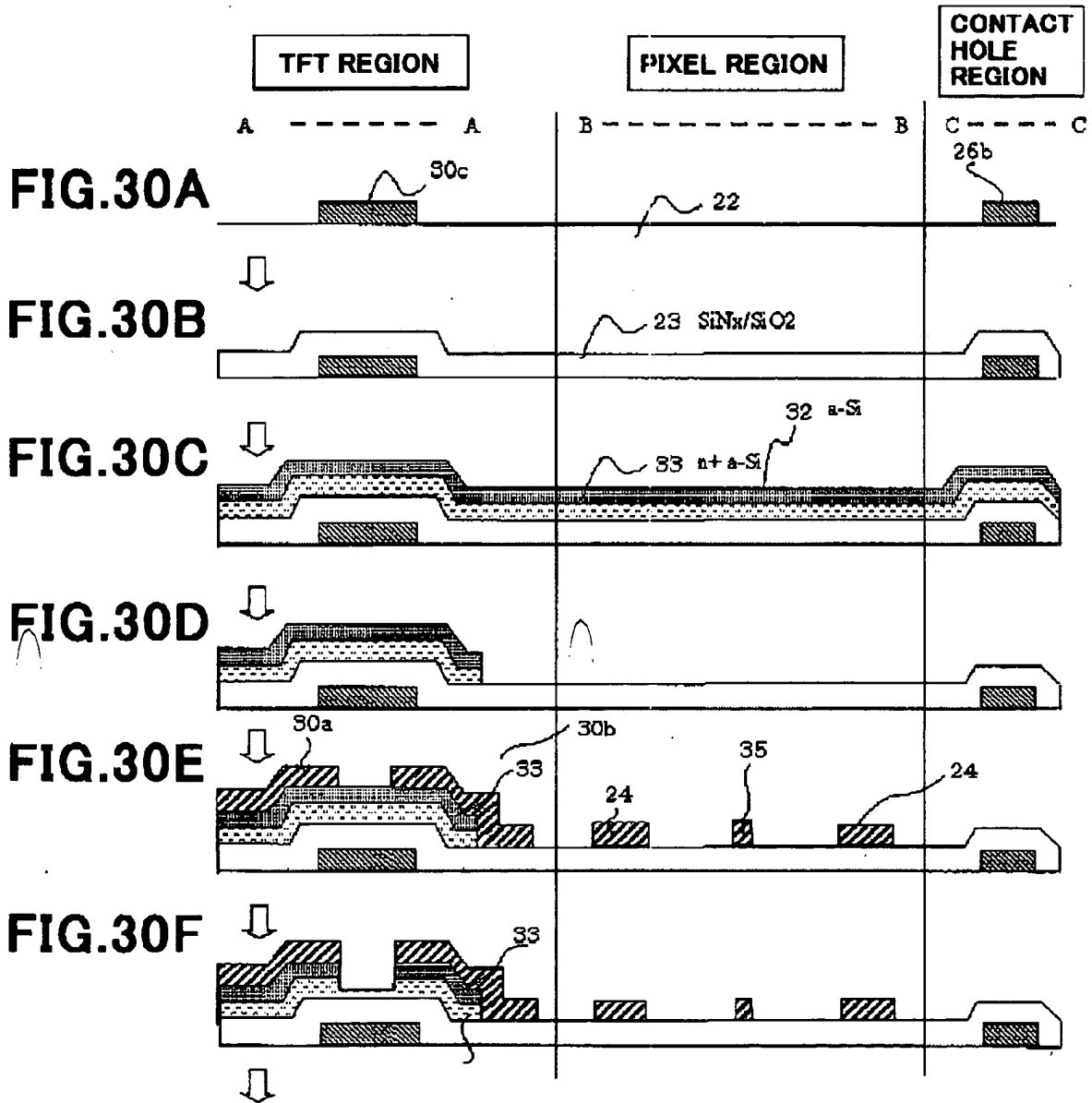




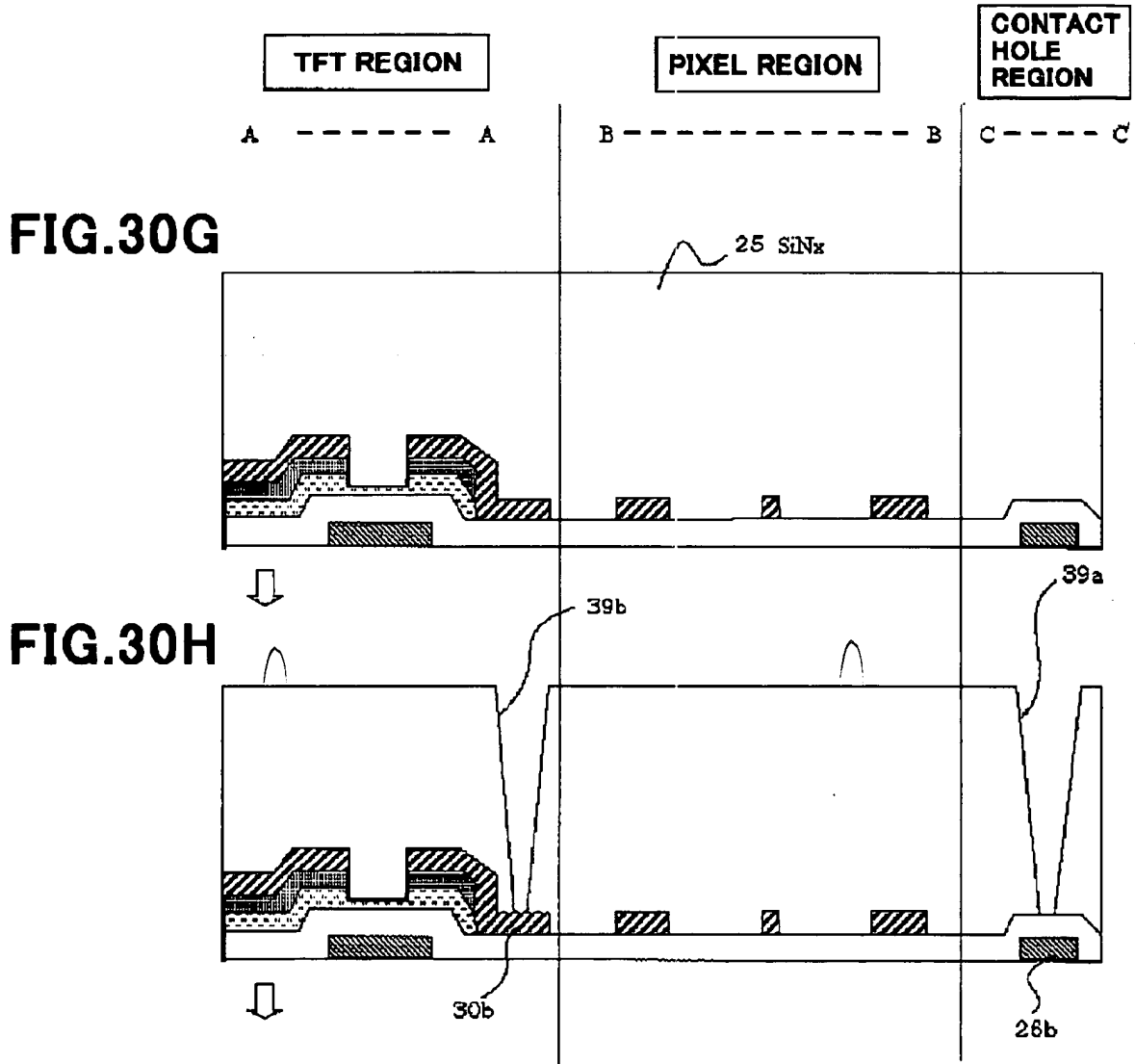
FIG.29I



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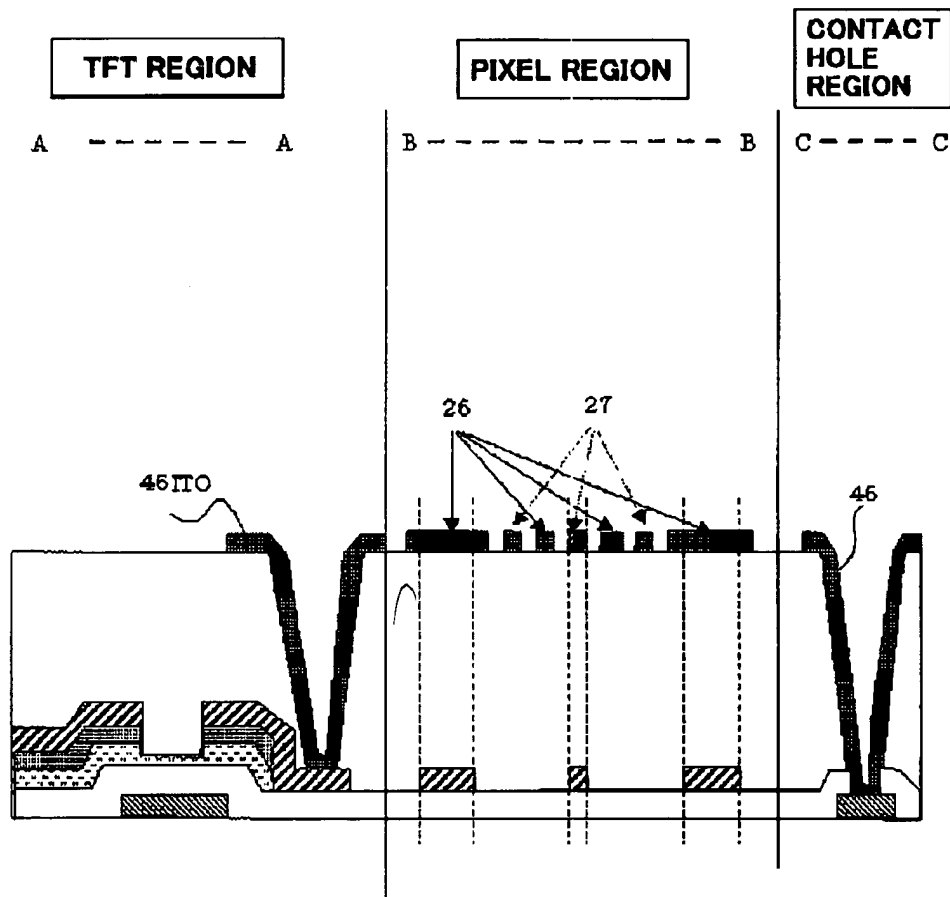


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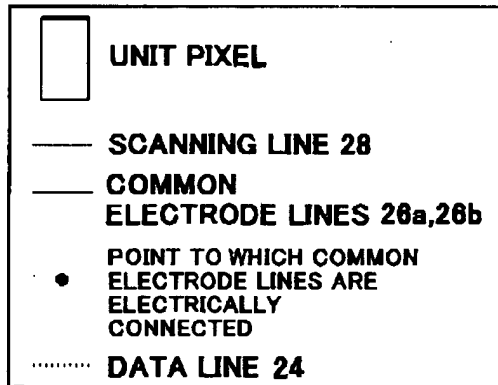
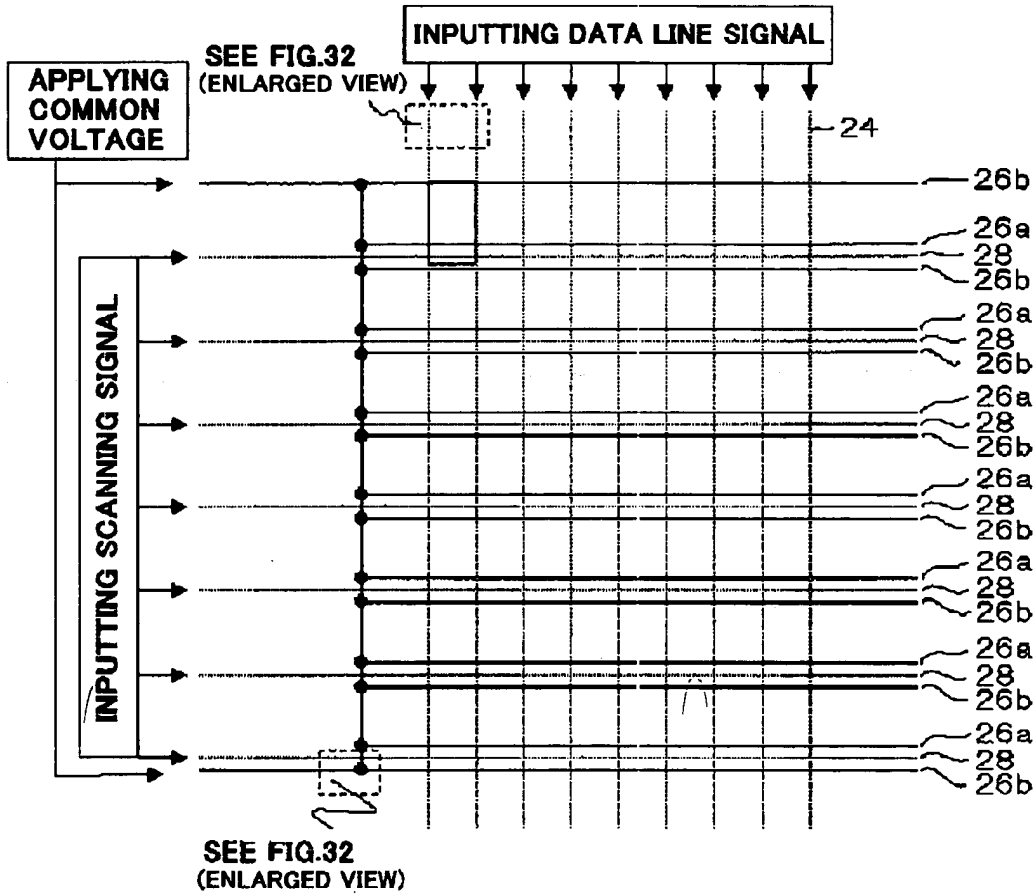
10081800.022202

FIG.30I



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FIG.31

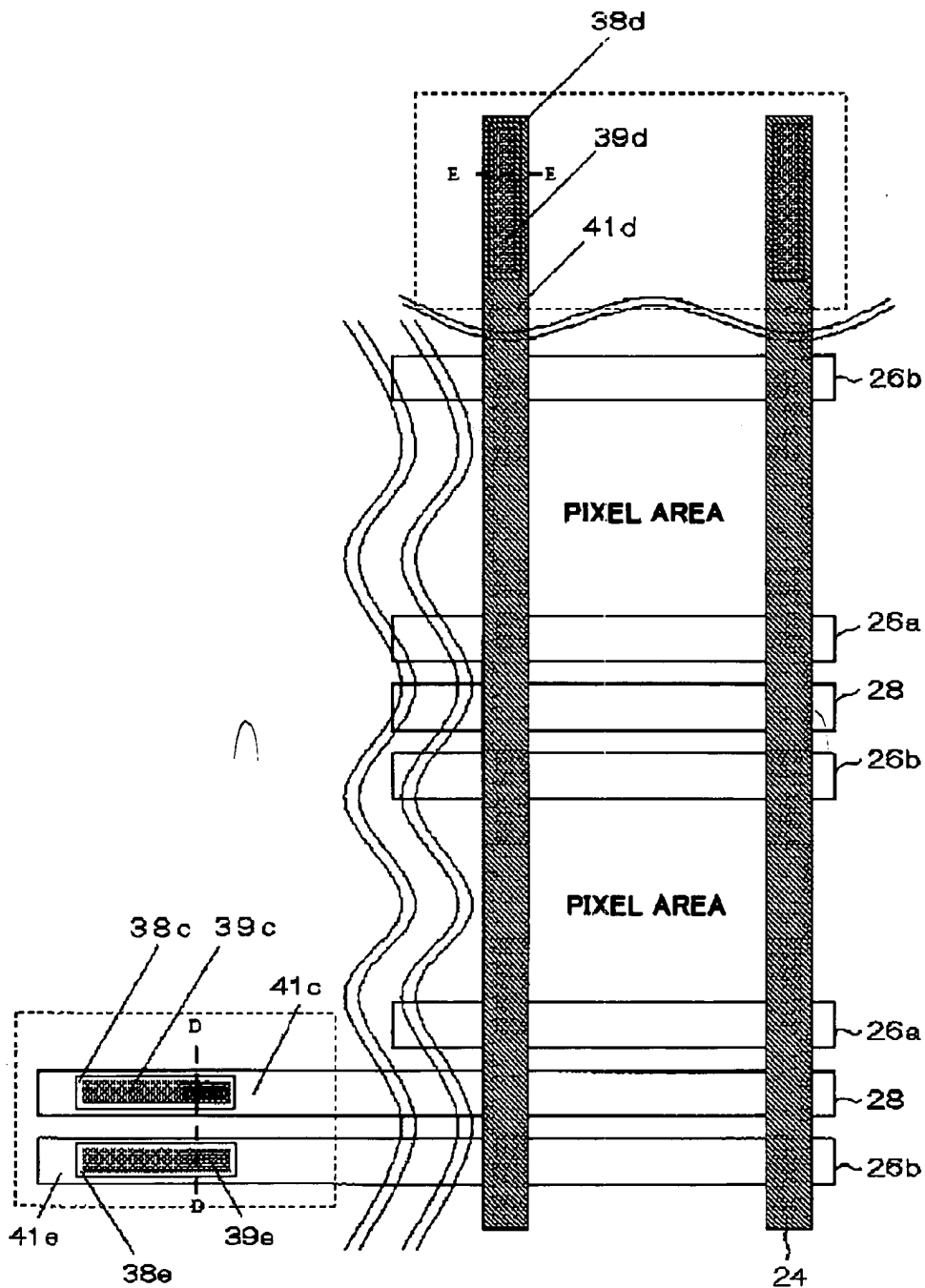


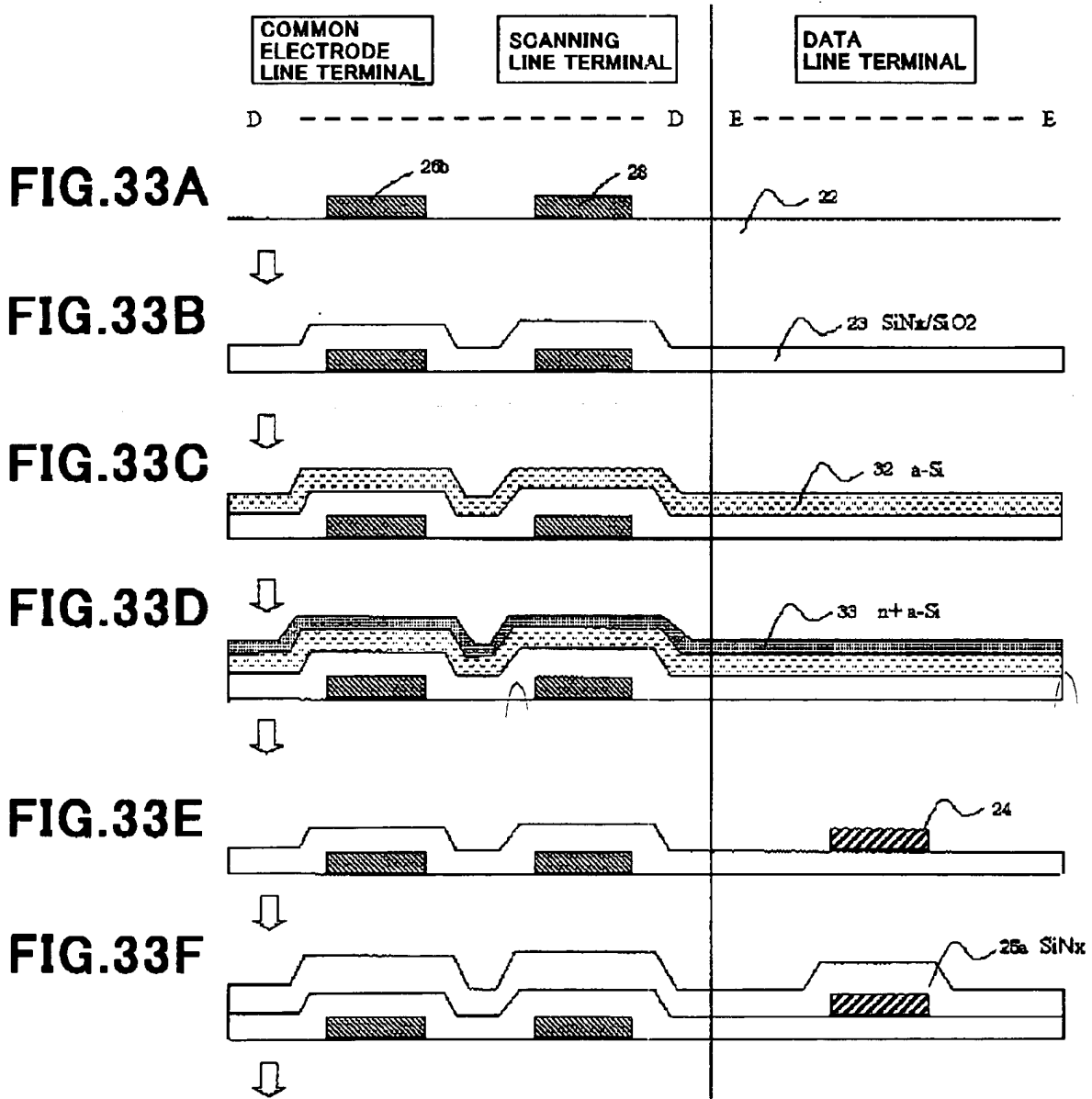
2002.02.21 00:08:00

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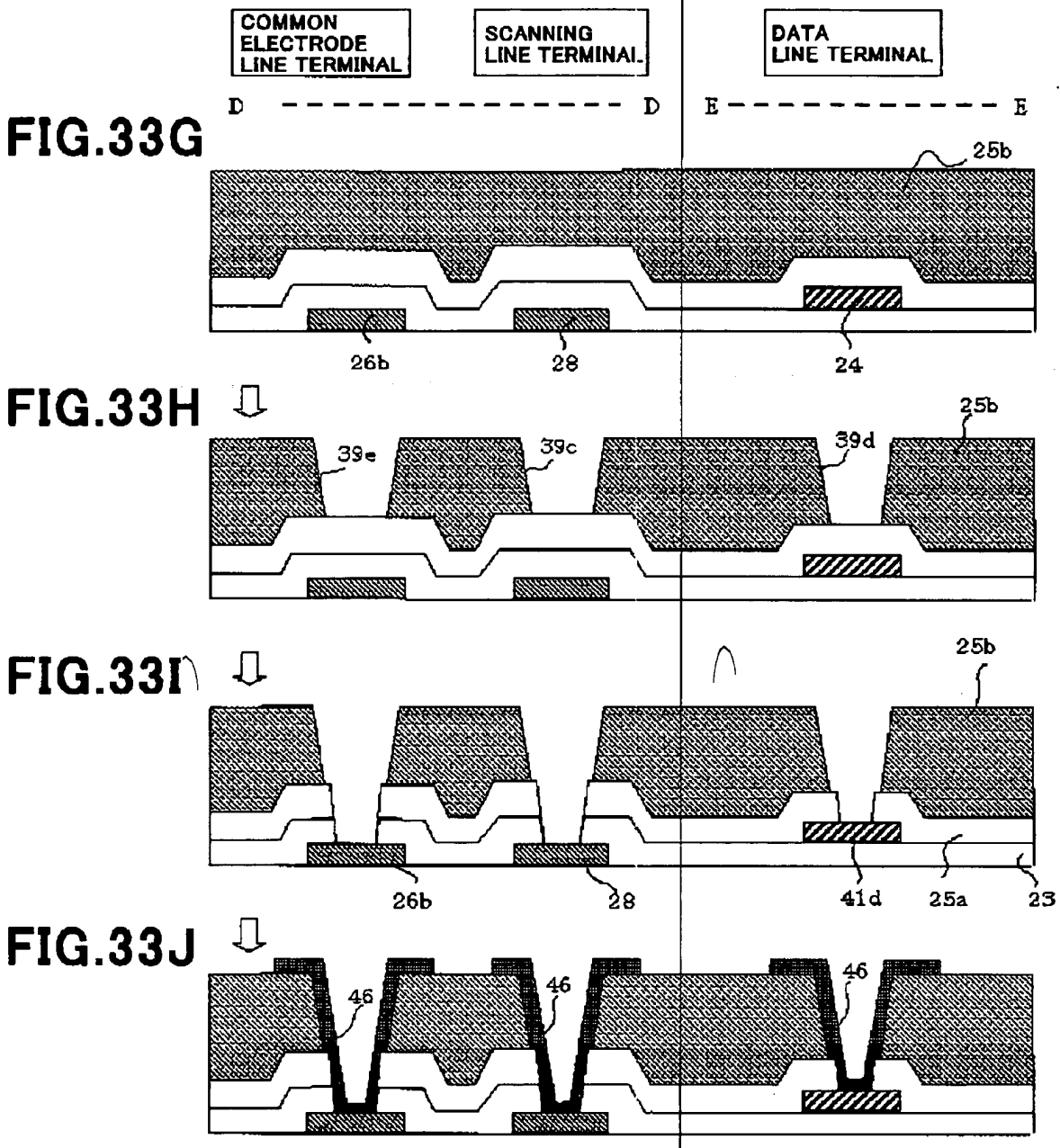
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FIG.32

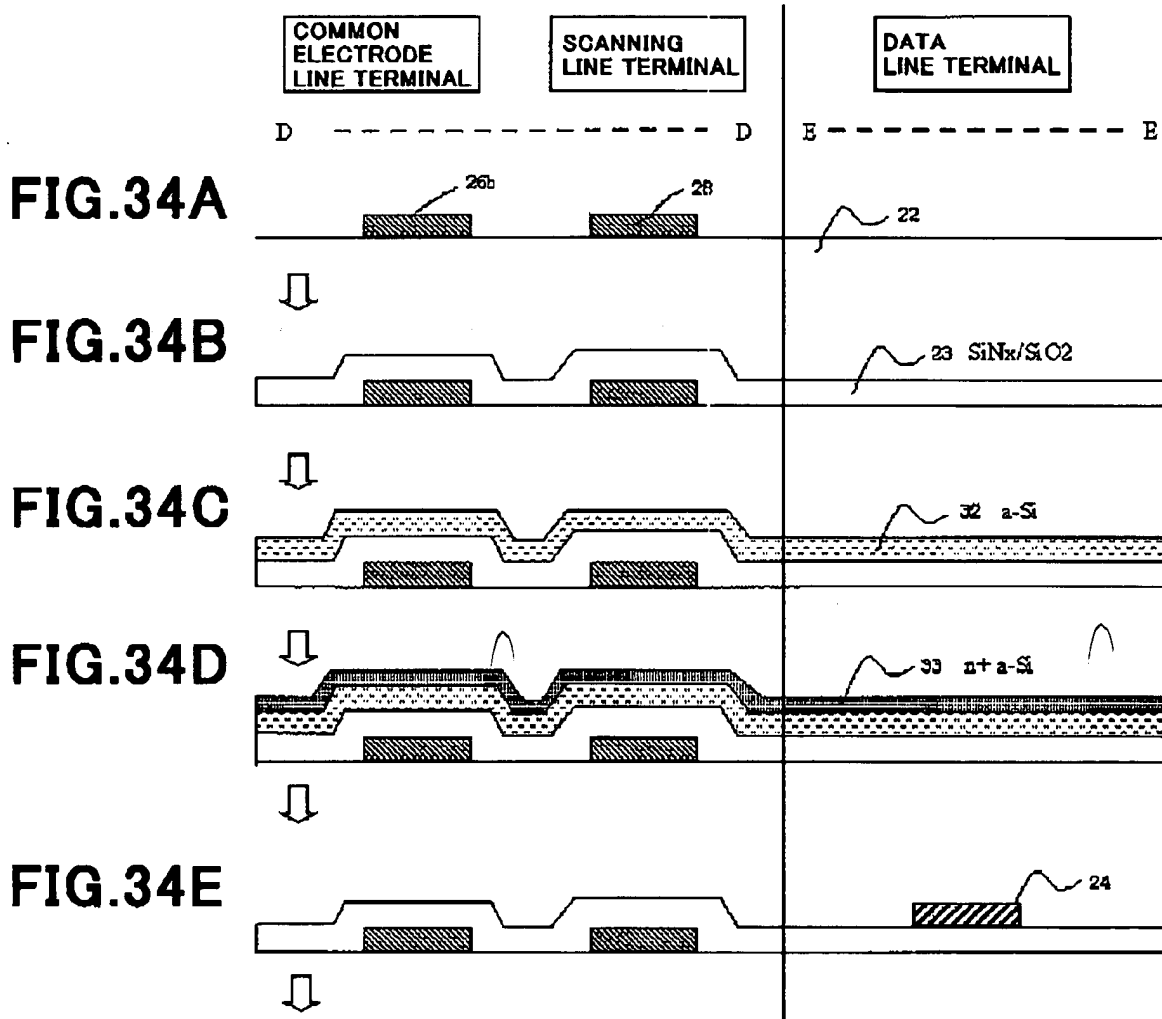




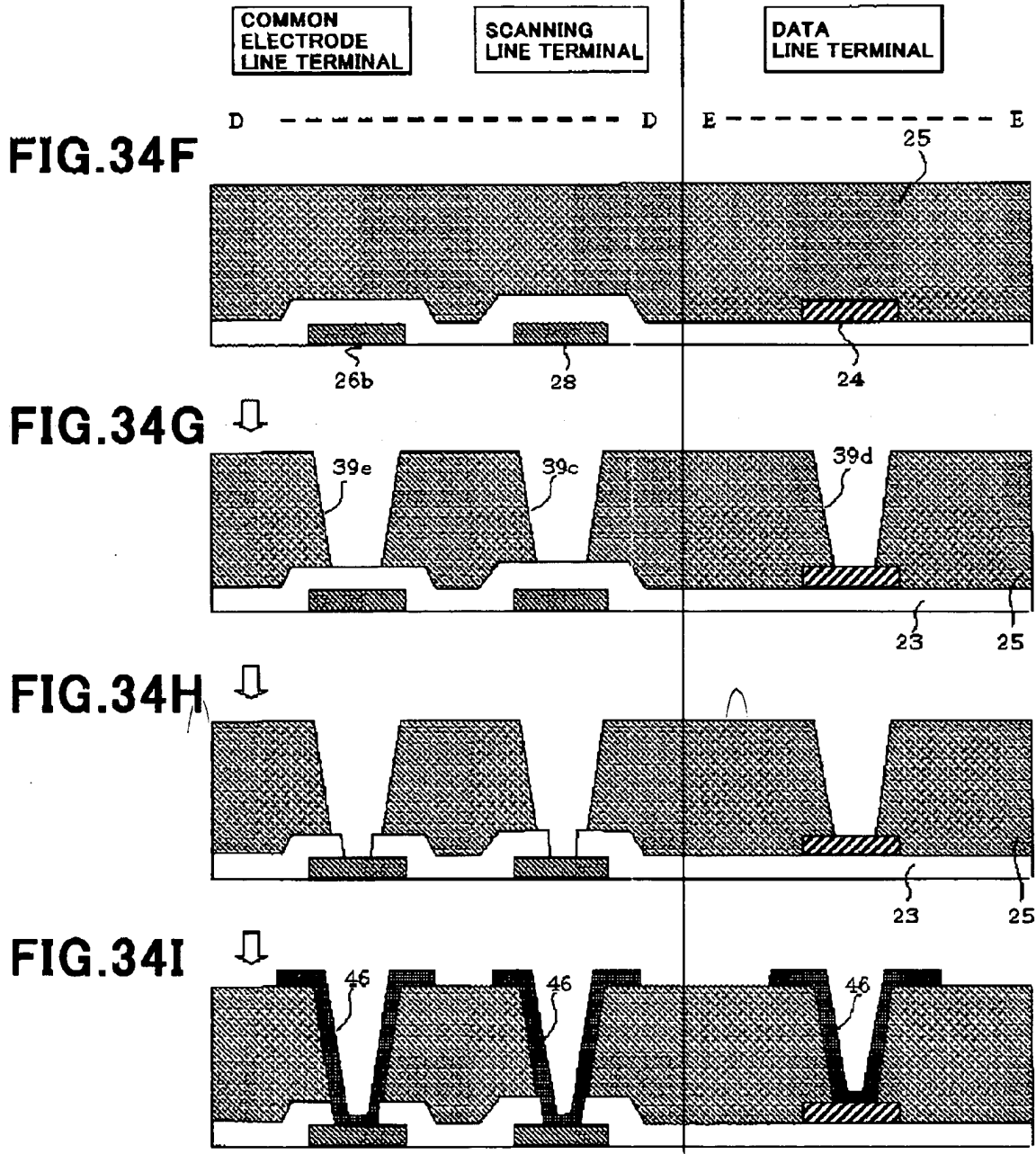
10081800, 022202



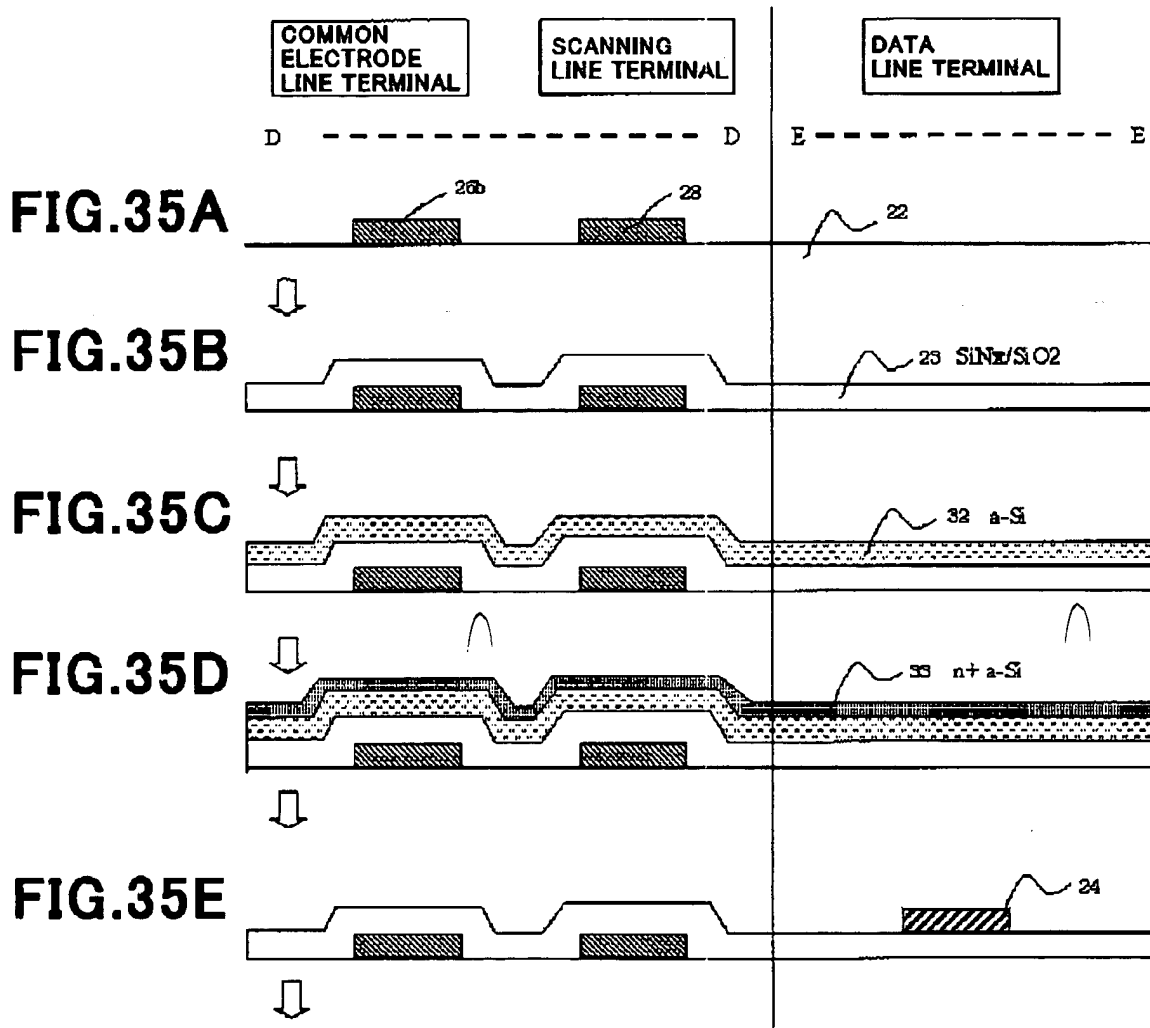




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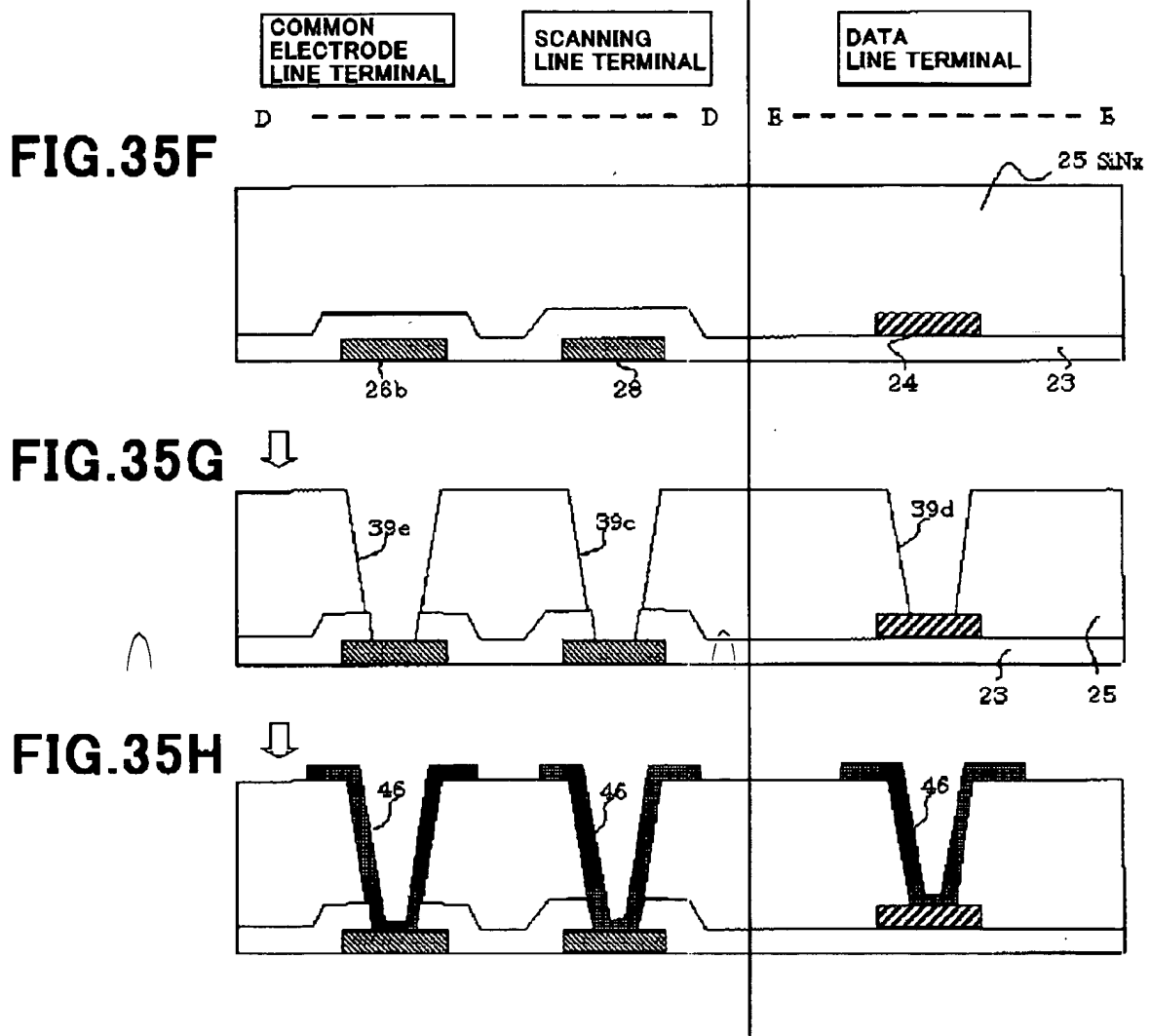
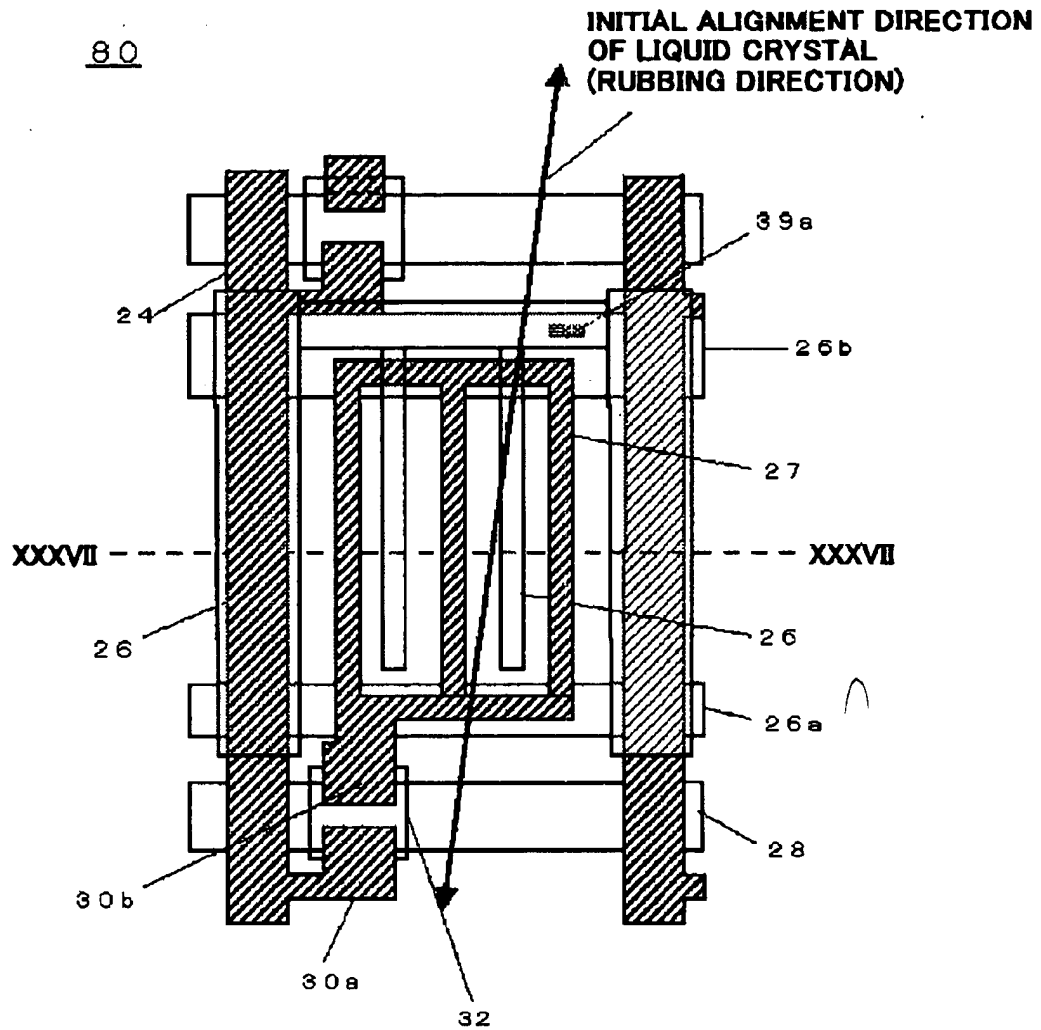
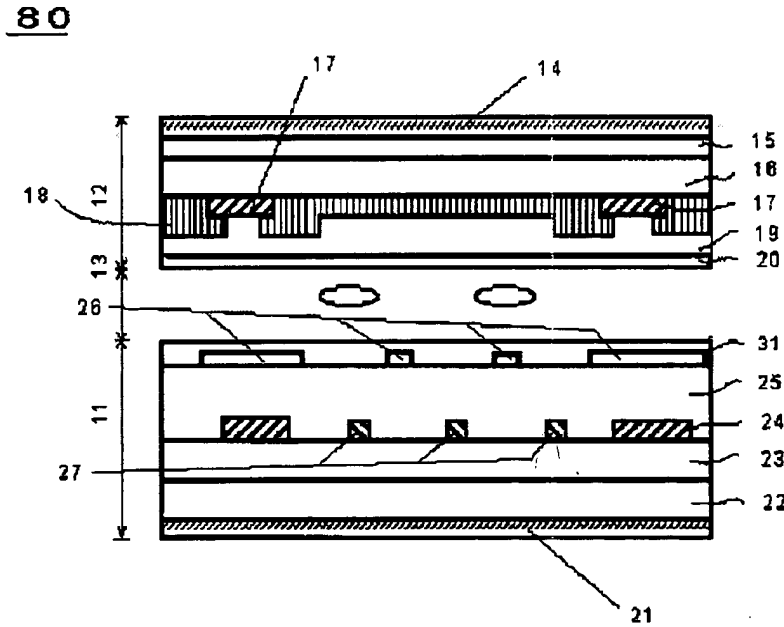


FIG.36



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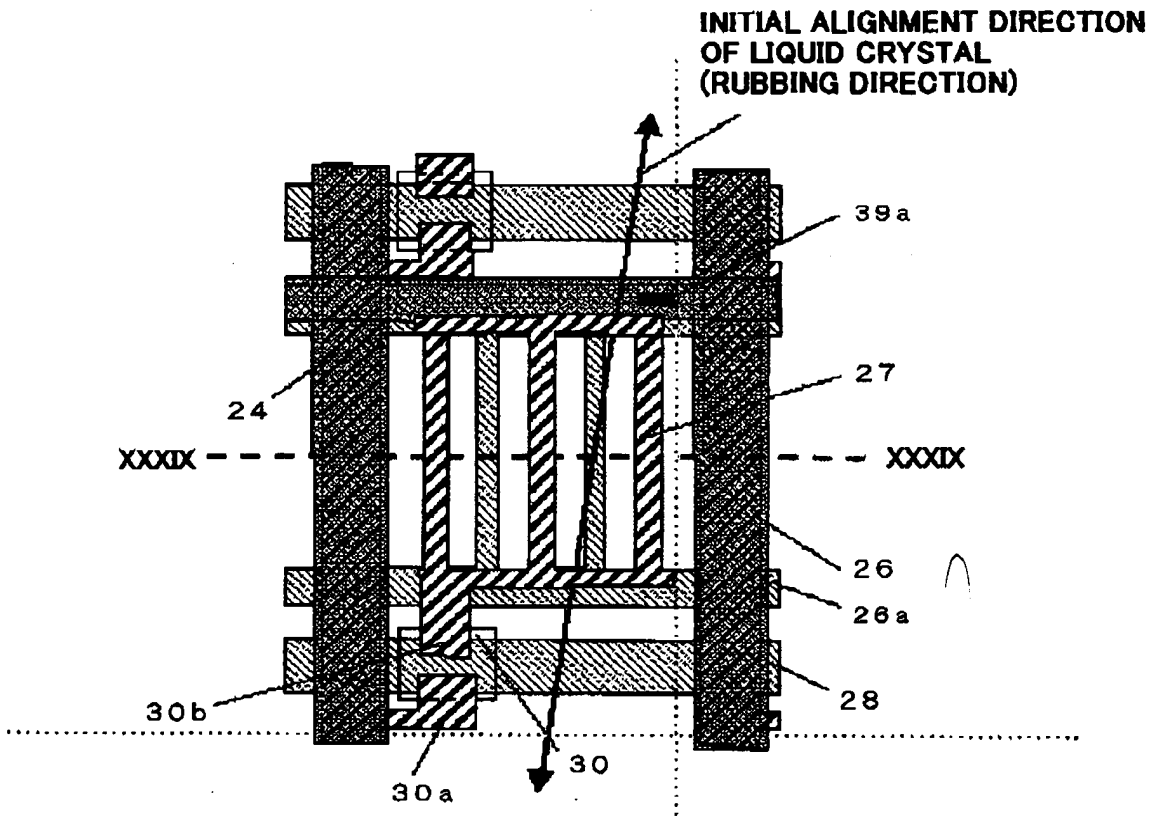
FIG.37



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FIG.38

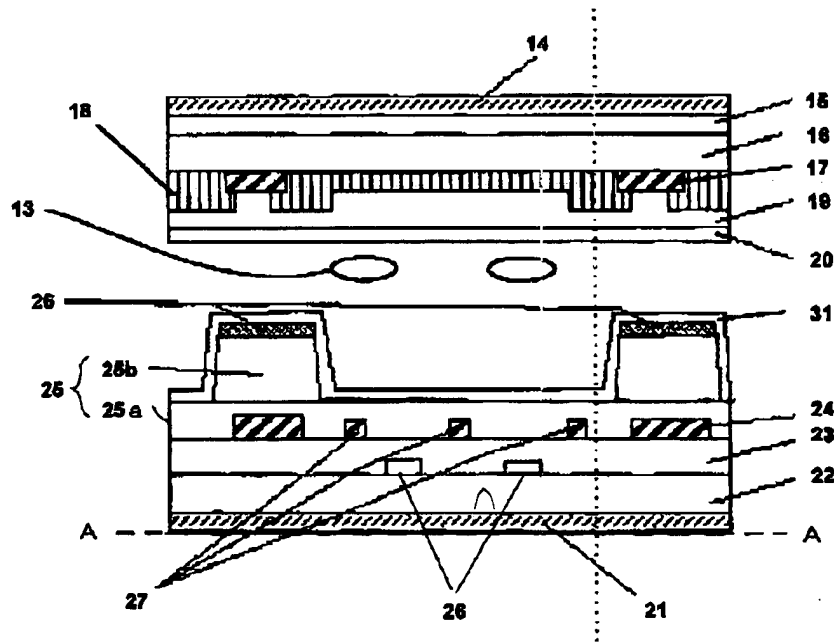
85



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FIG.39

85



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FIG.40

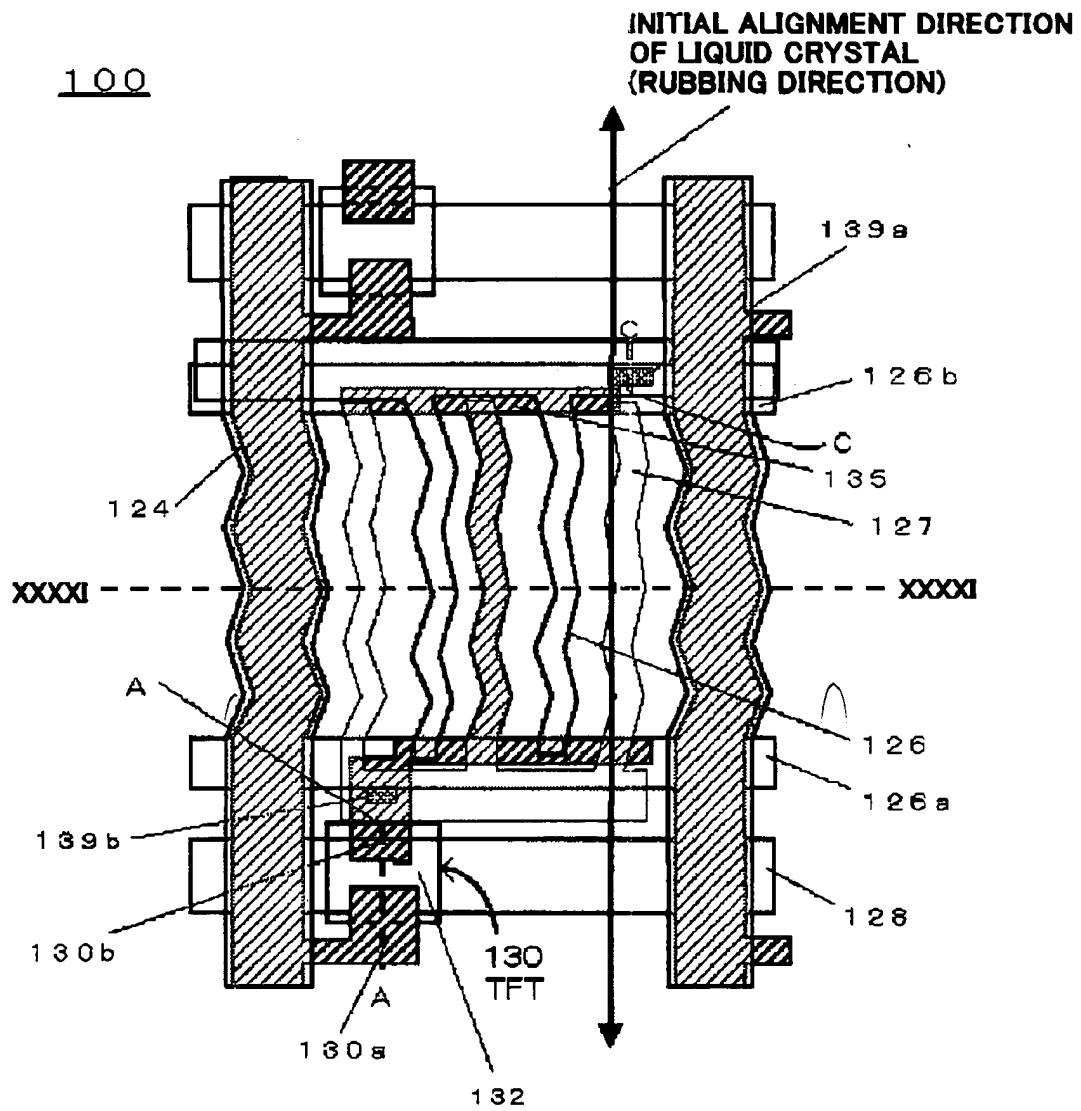
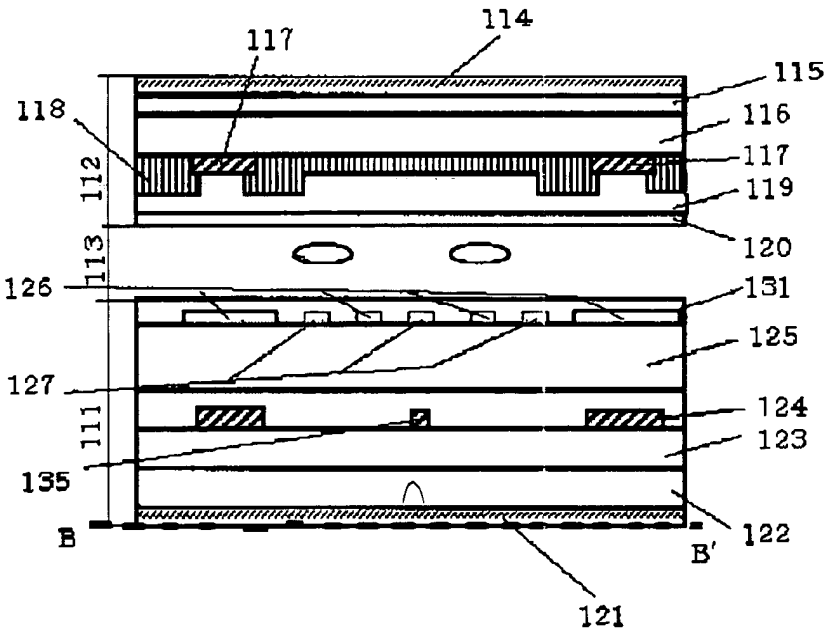


FIG.41

100



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FIG.42A

FIG.42B

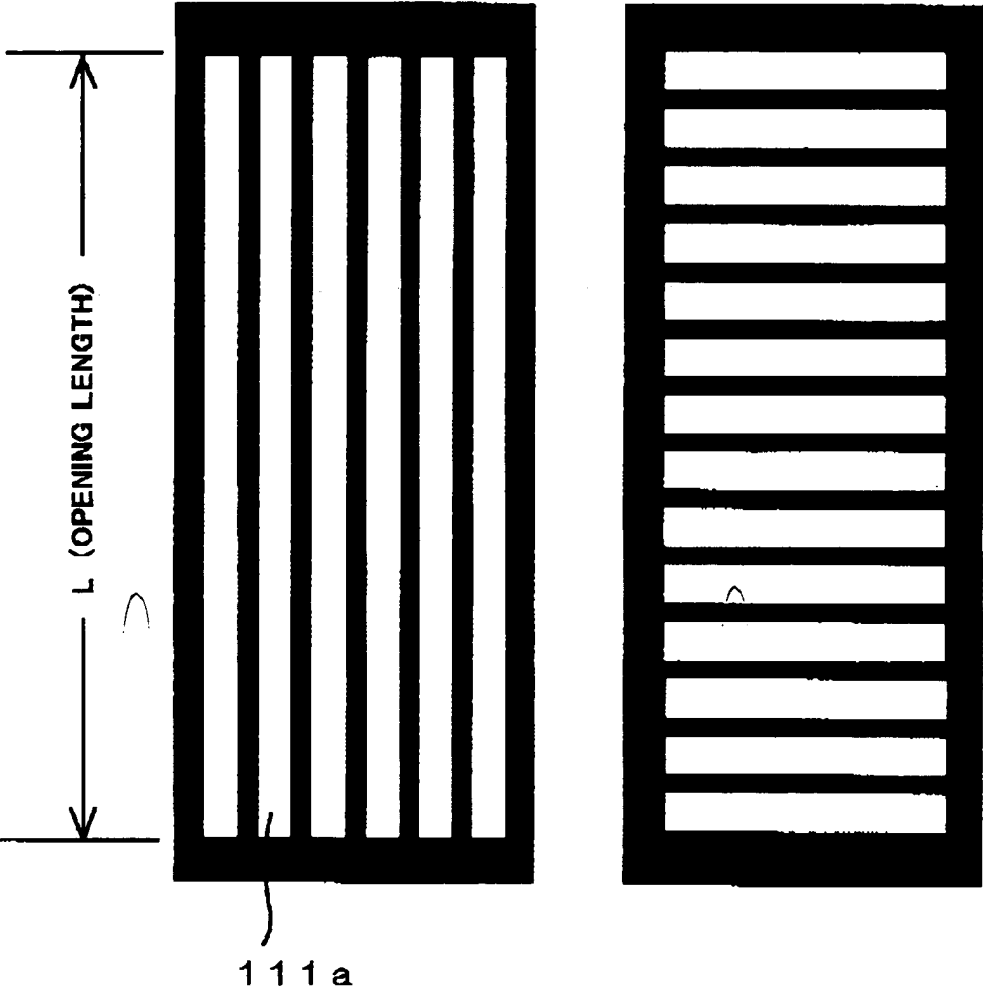
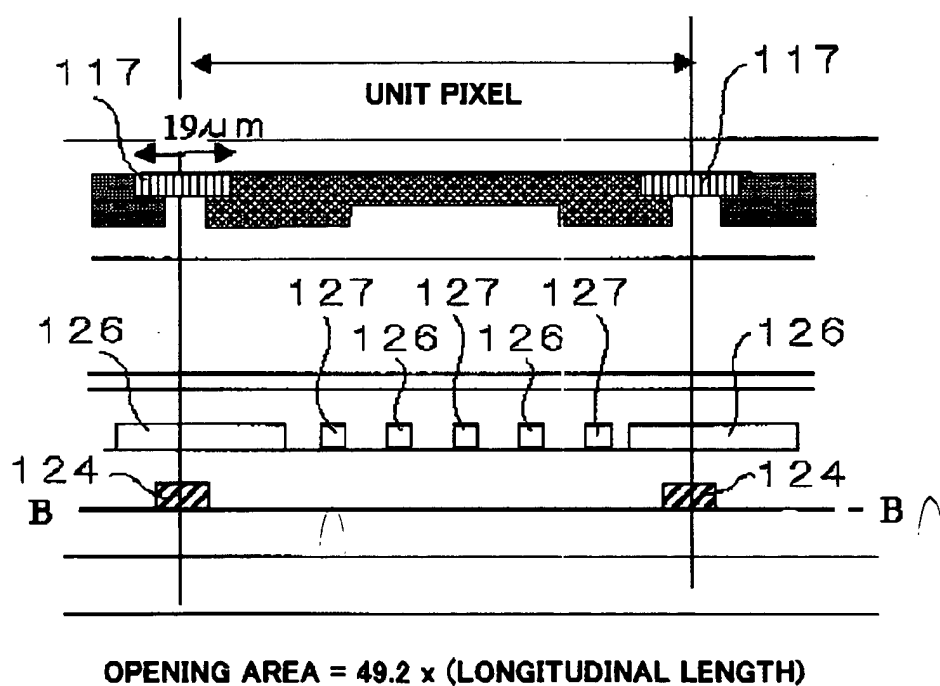


FIG.47

202



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203

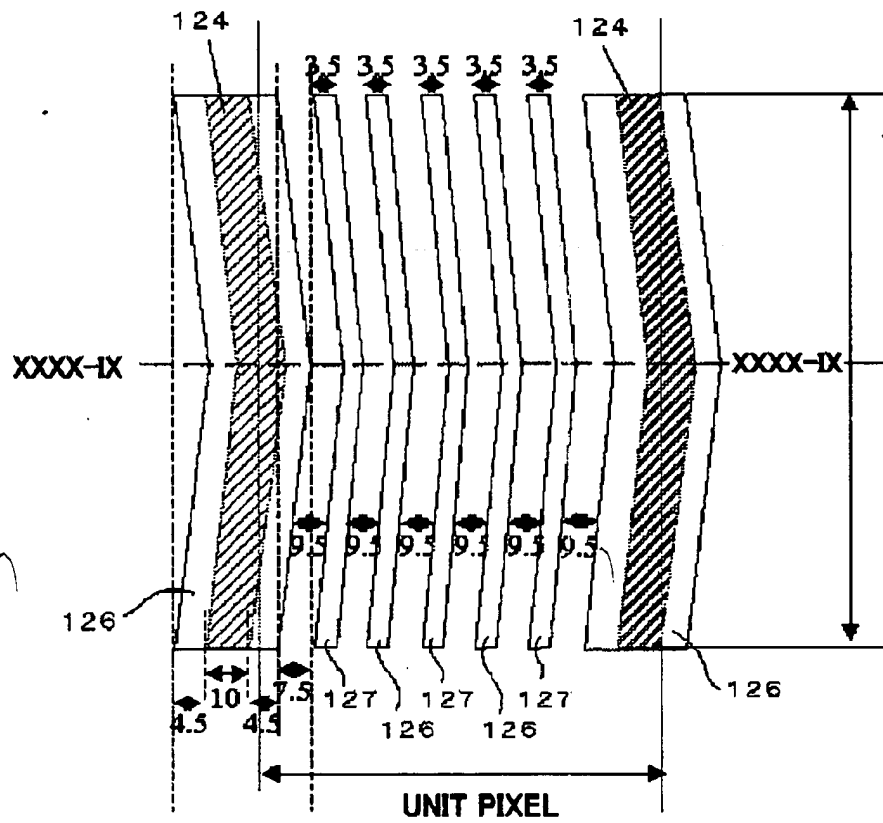
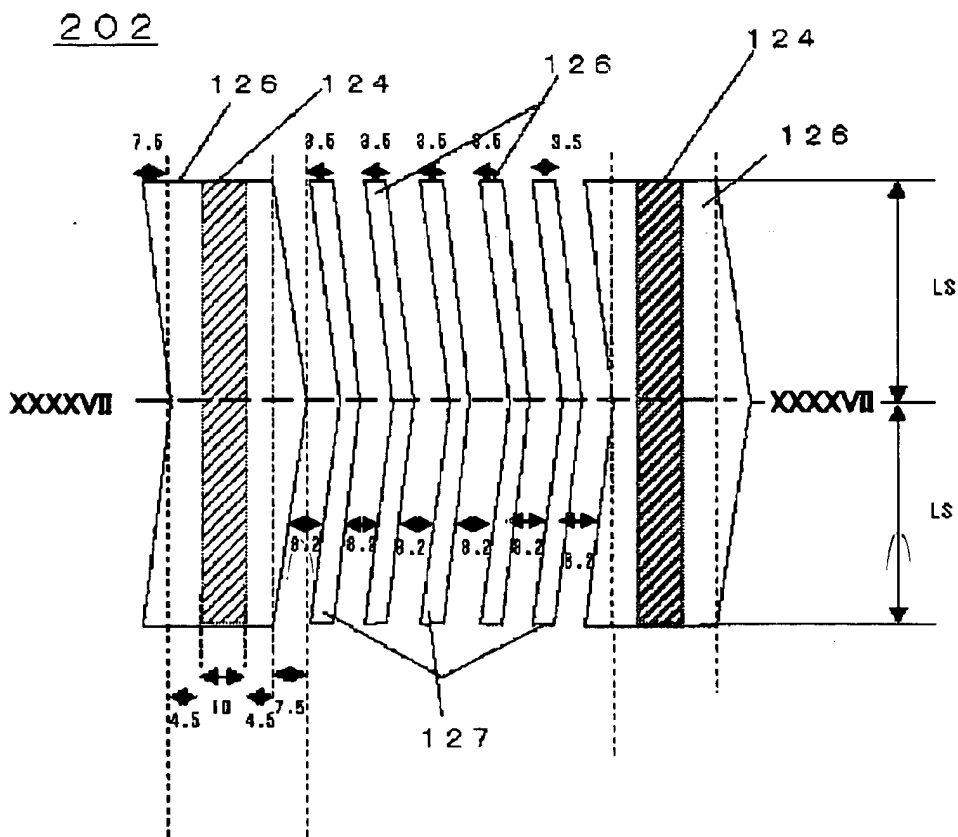


FIG.46



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FIG.43A

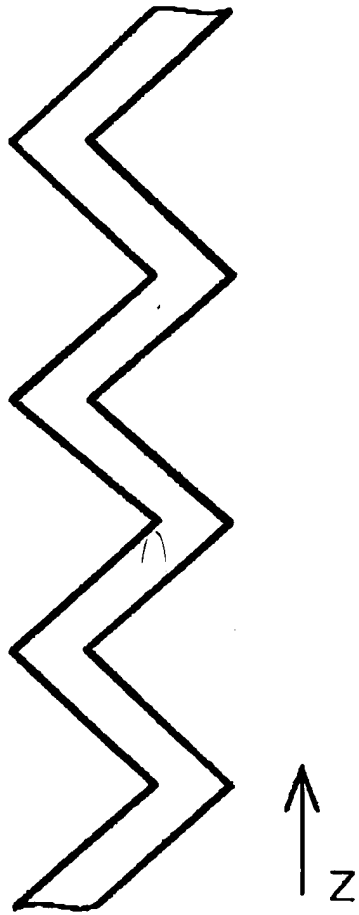
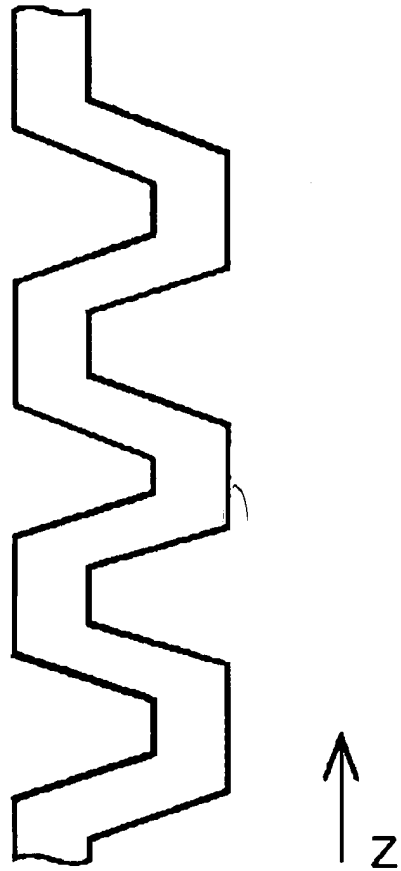


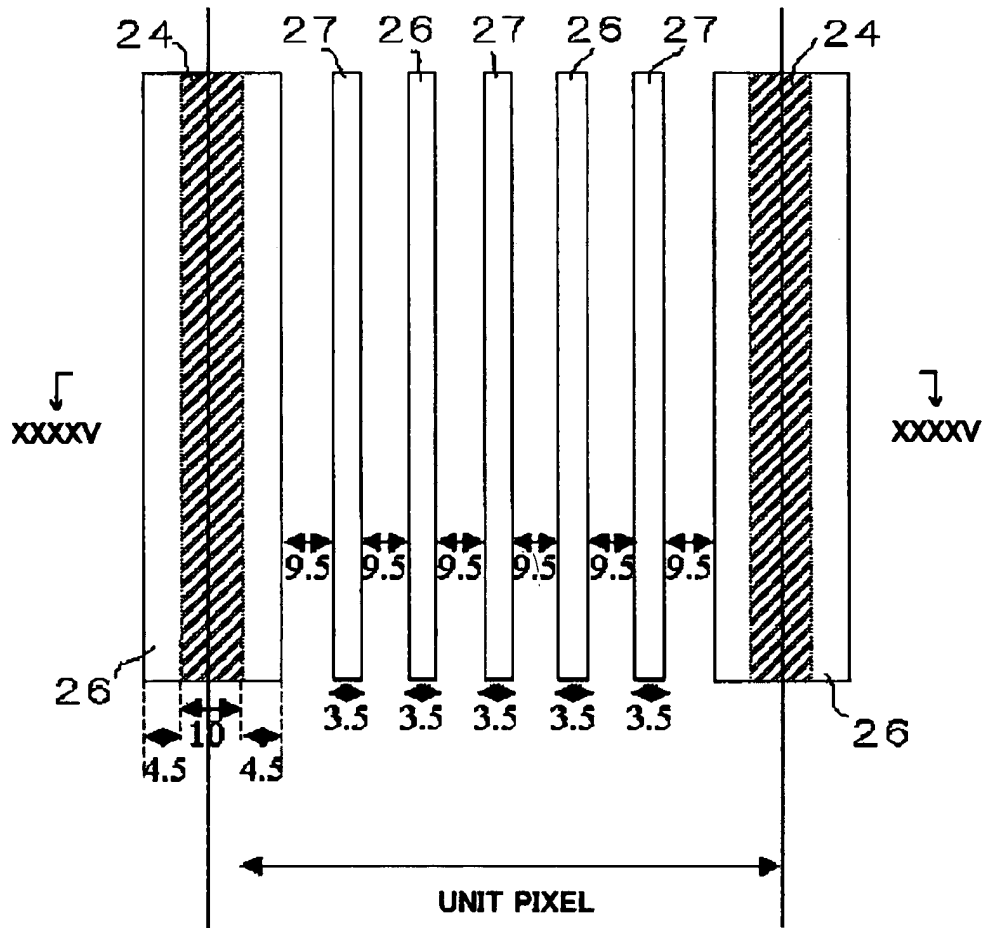
FIG.43B



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FIG.44

201

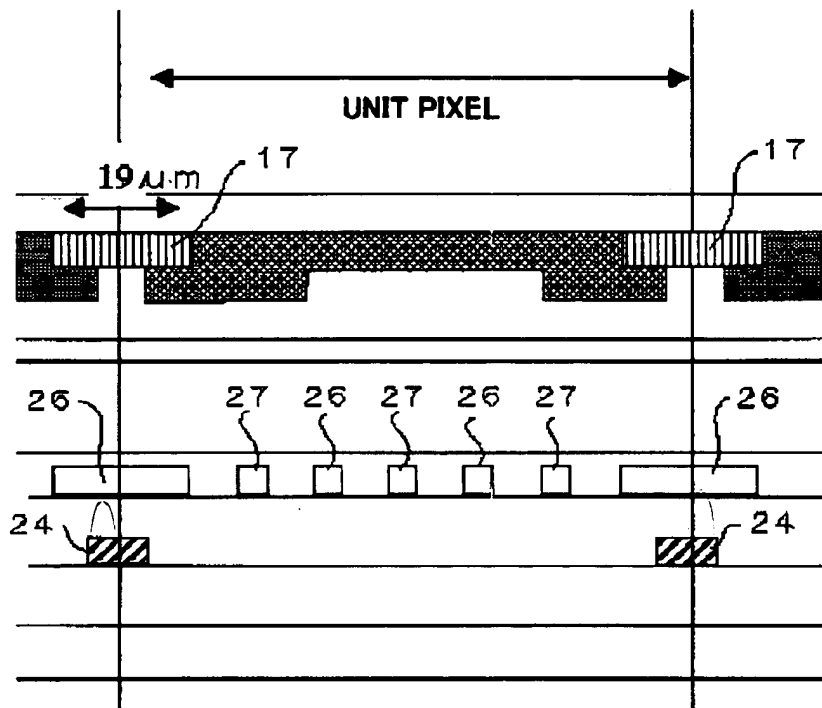


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FIG.45

201

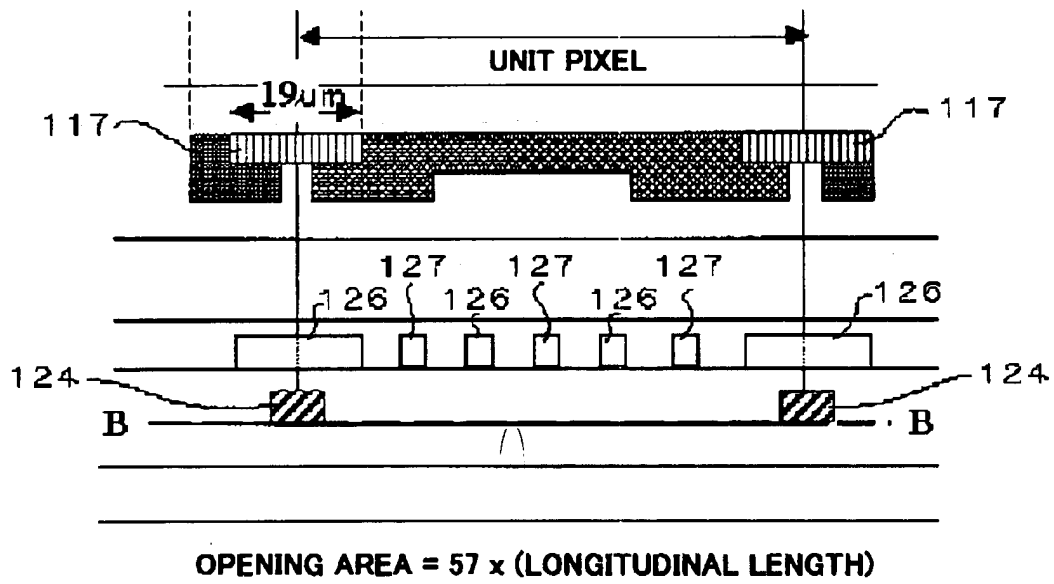


OPENING AREA = 57 x (LONGITUDINAL LENGTH)

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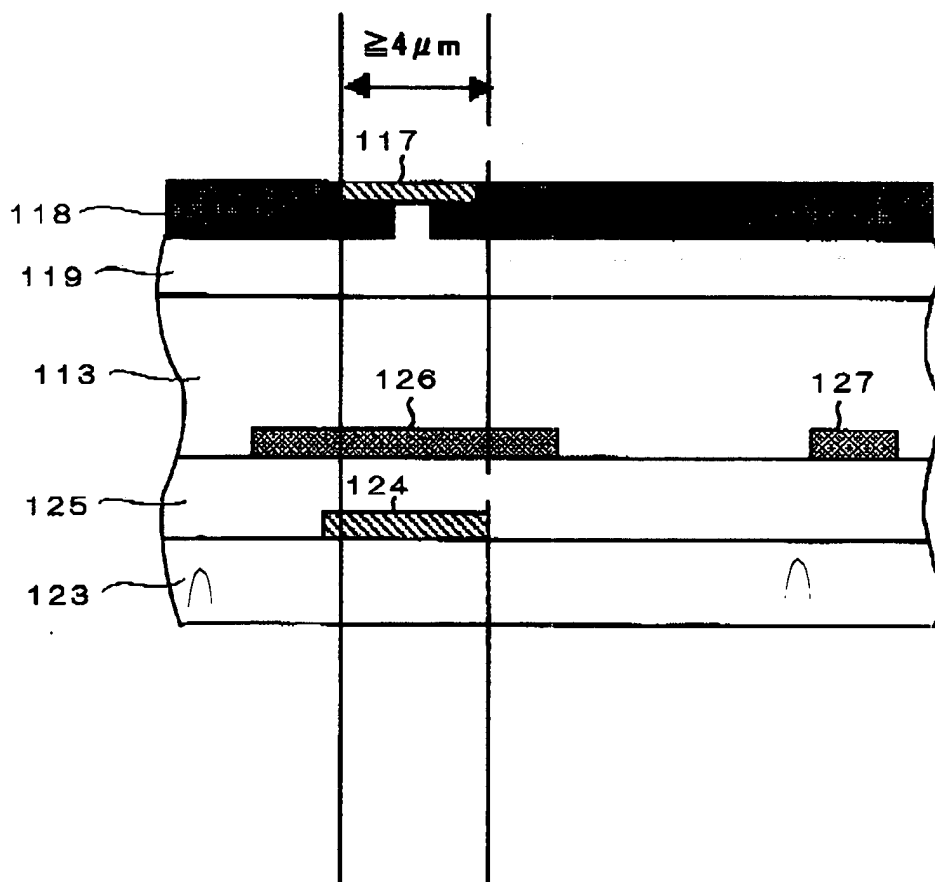
FIG.49

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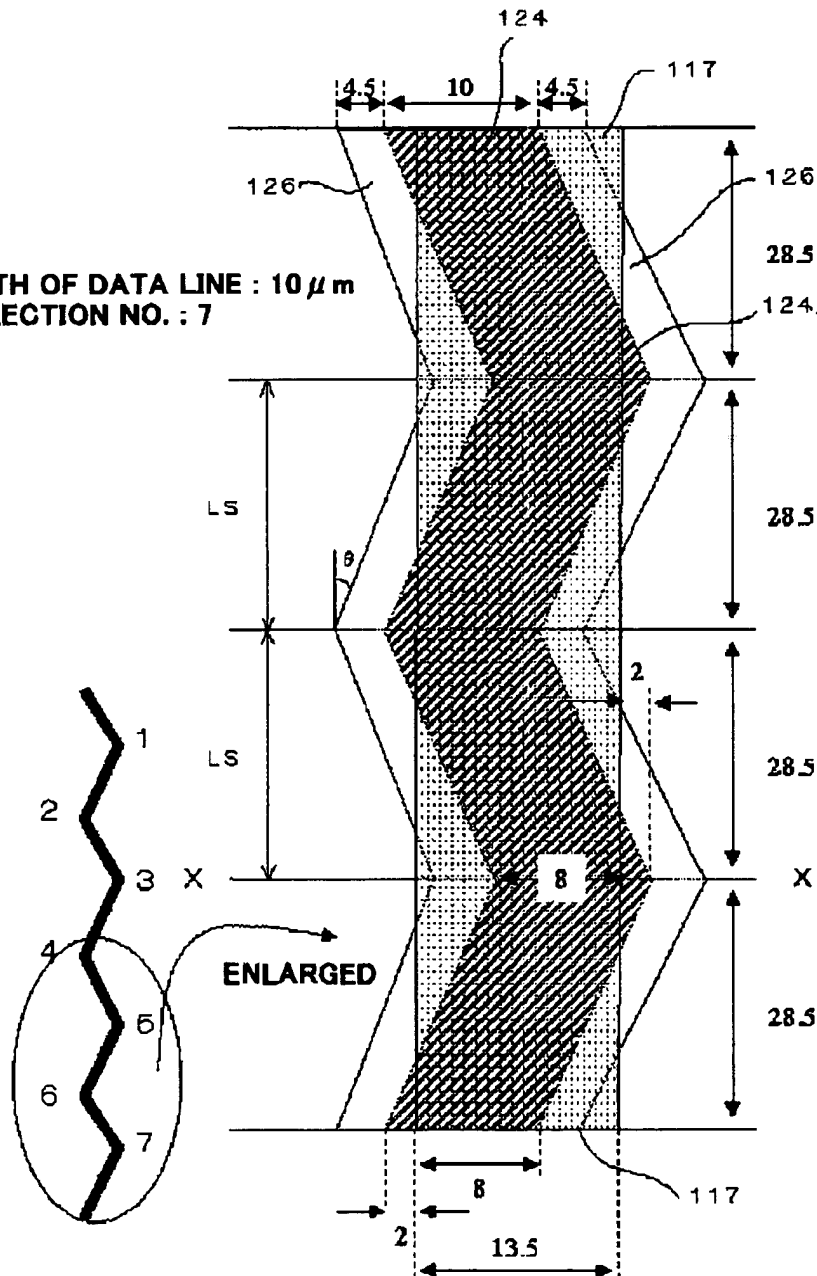
2002.02.21 10:08:1800.022202

FIG.50



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WIDTH OF DATA LINE :  $10 \mu m$   
INFLECTION NO. : 7



WIDTH OF DATA LINE :  $10 \mu m$   
INFLECTION NO. : 5

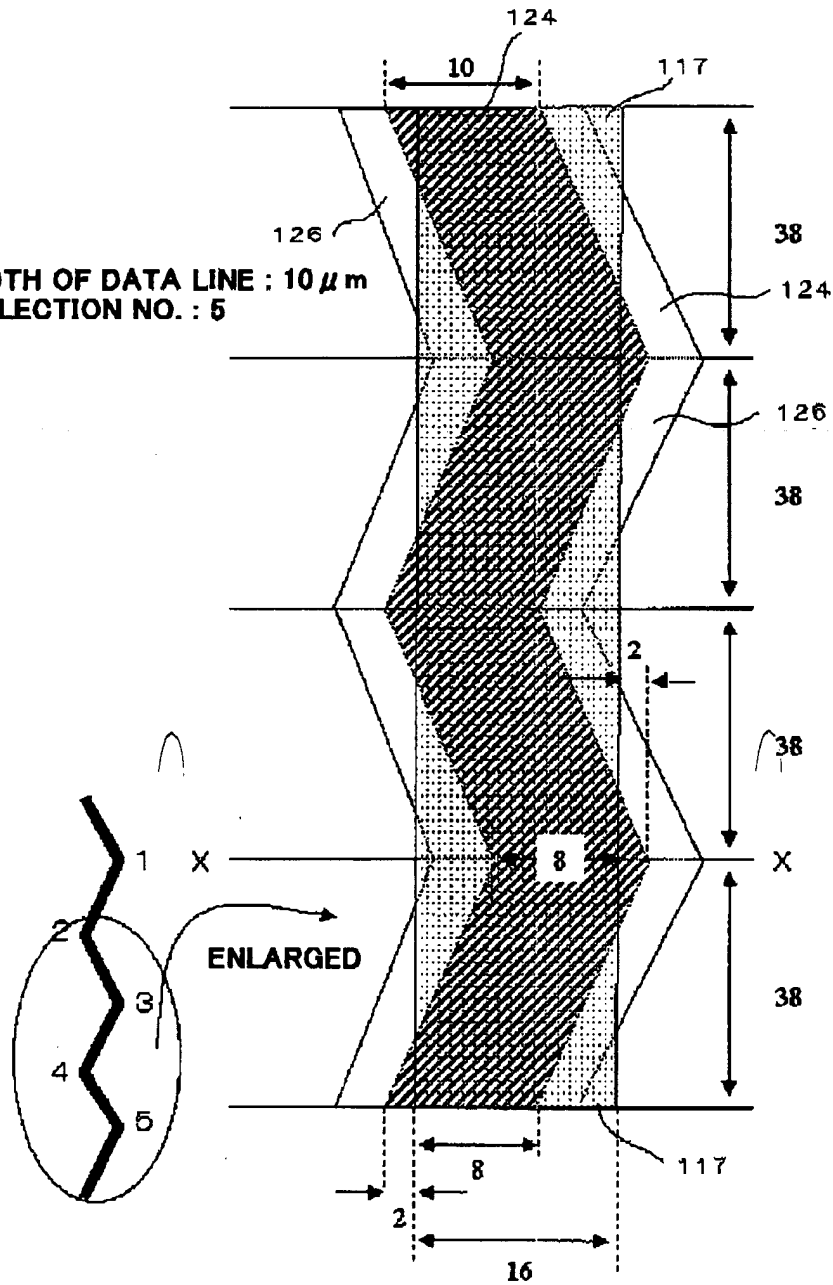
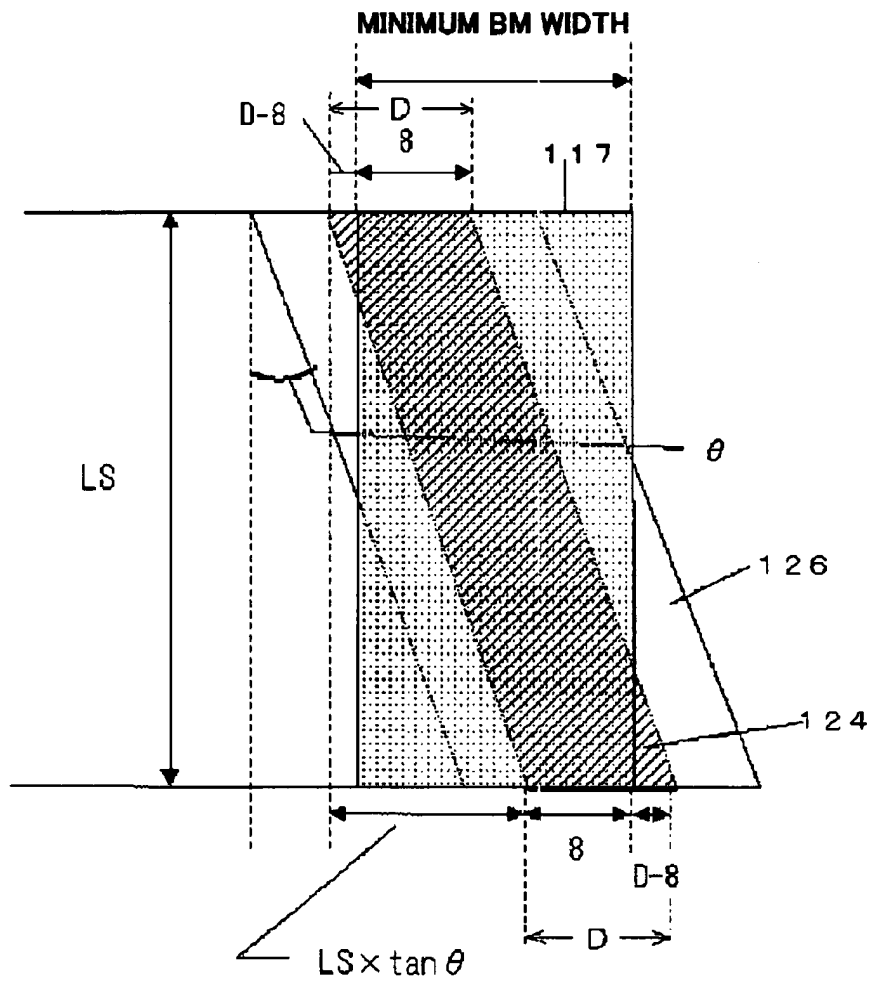


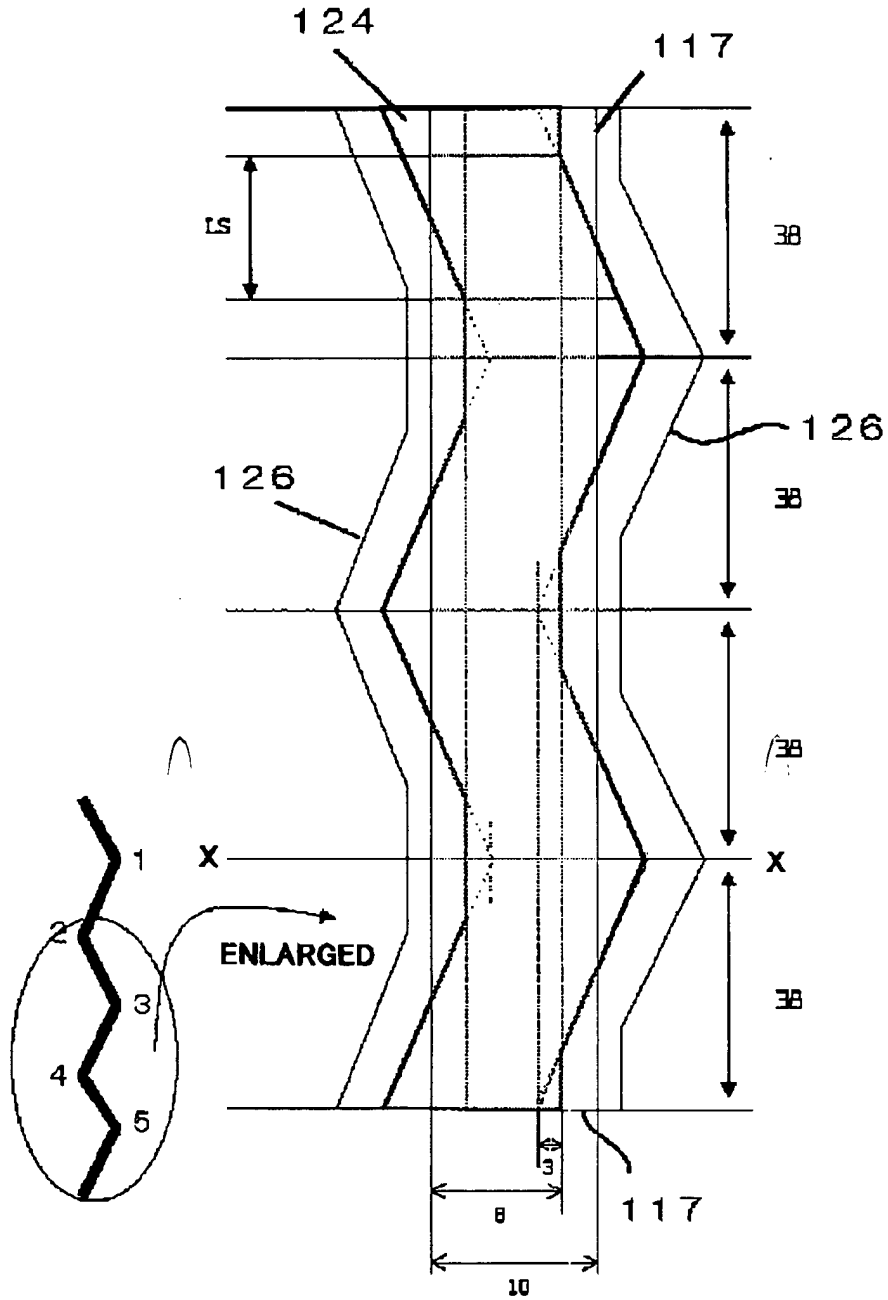
FIG.53

MINIMUM WIDTH OF BM  
 $D_{min} = D + LS \times \tan \theta - (D-8) \times 2$



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FIG.54



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WIDTH OF DATA LINE :  $10\mu m$   
INFLECTION NO. : 5

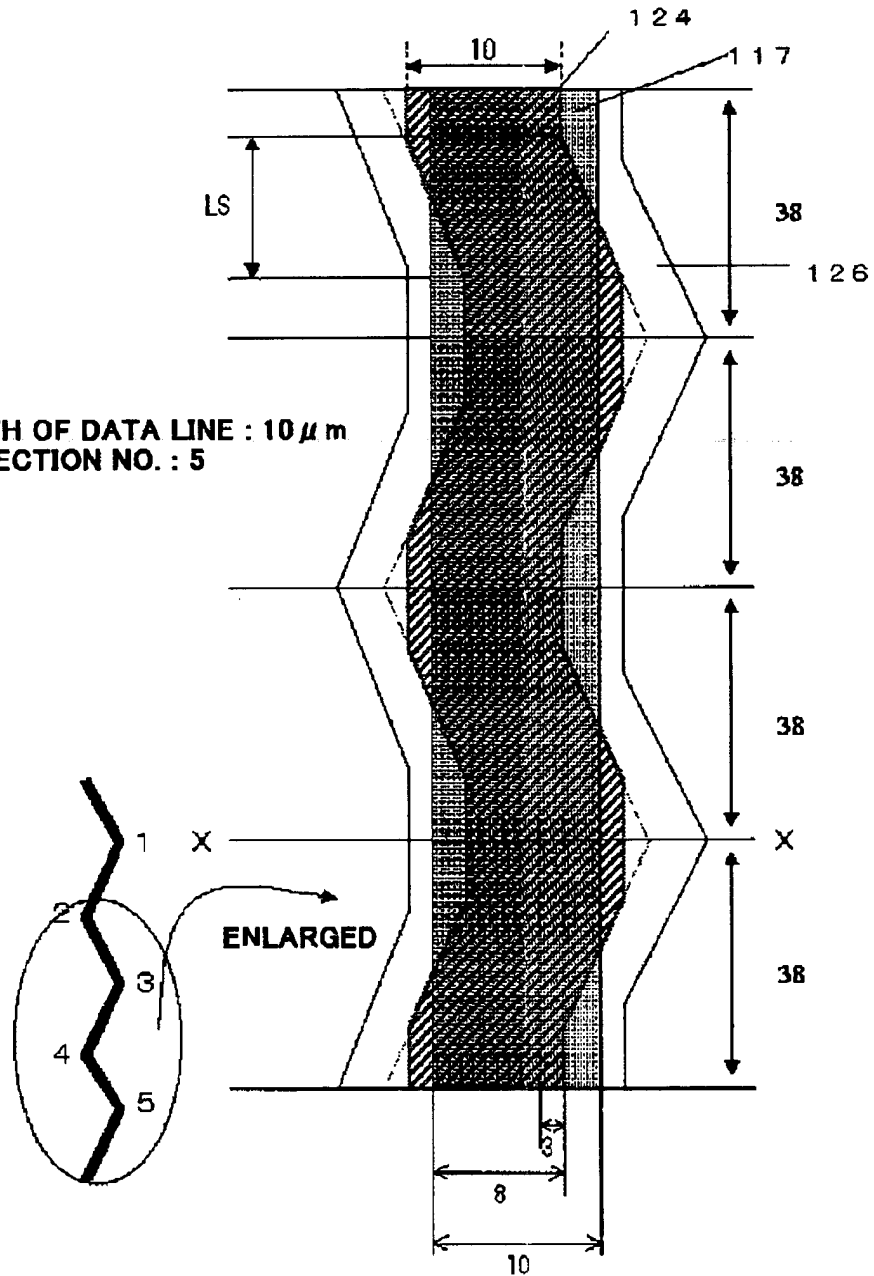
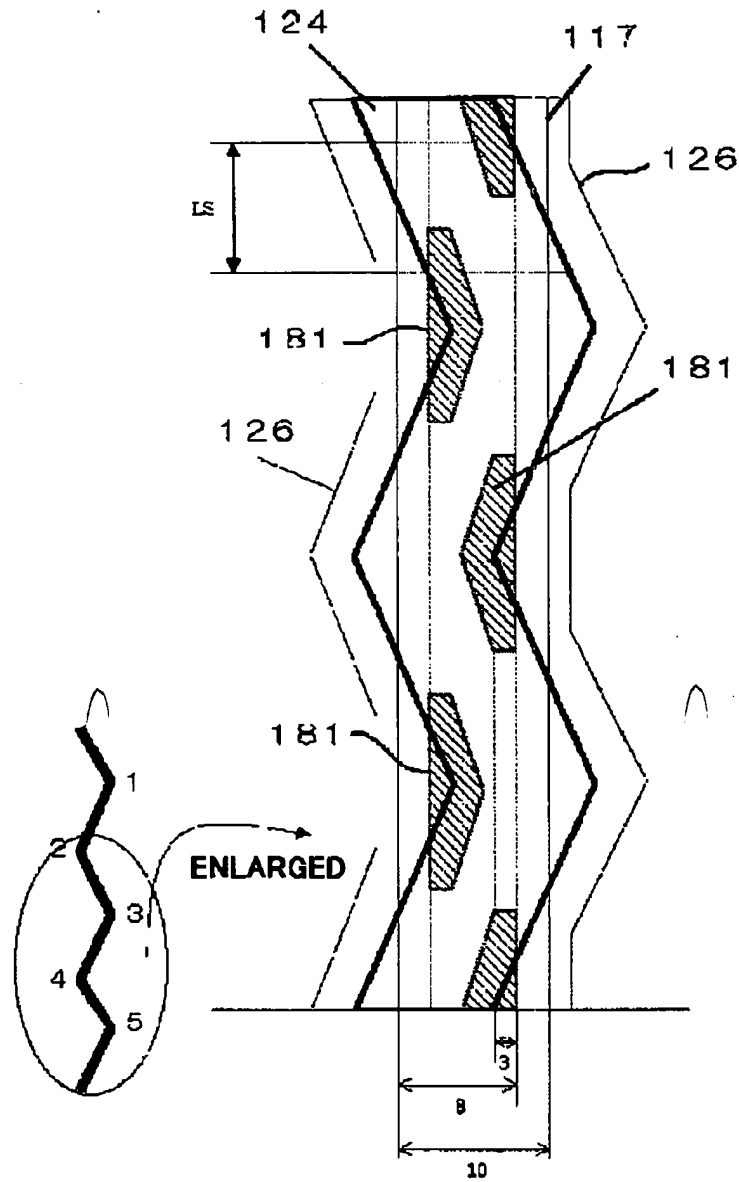


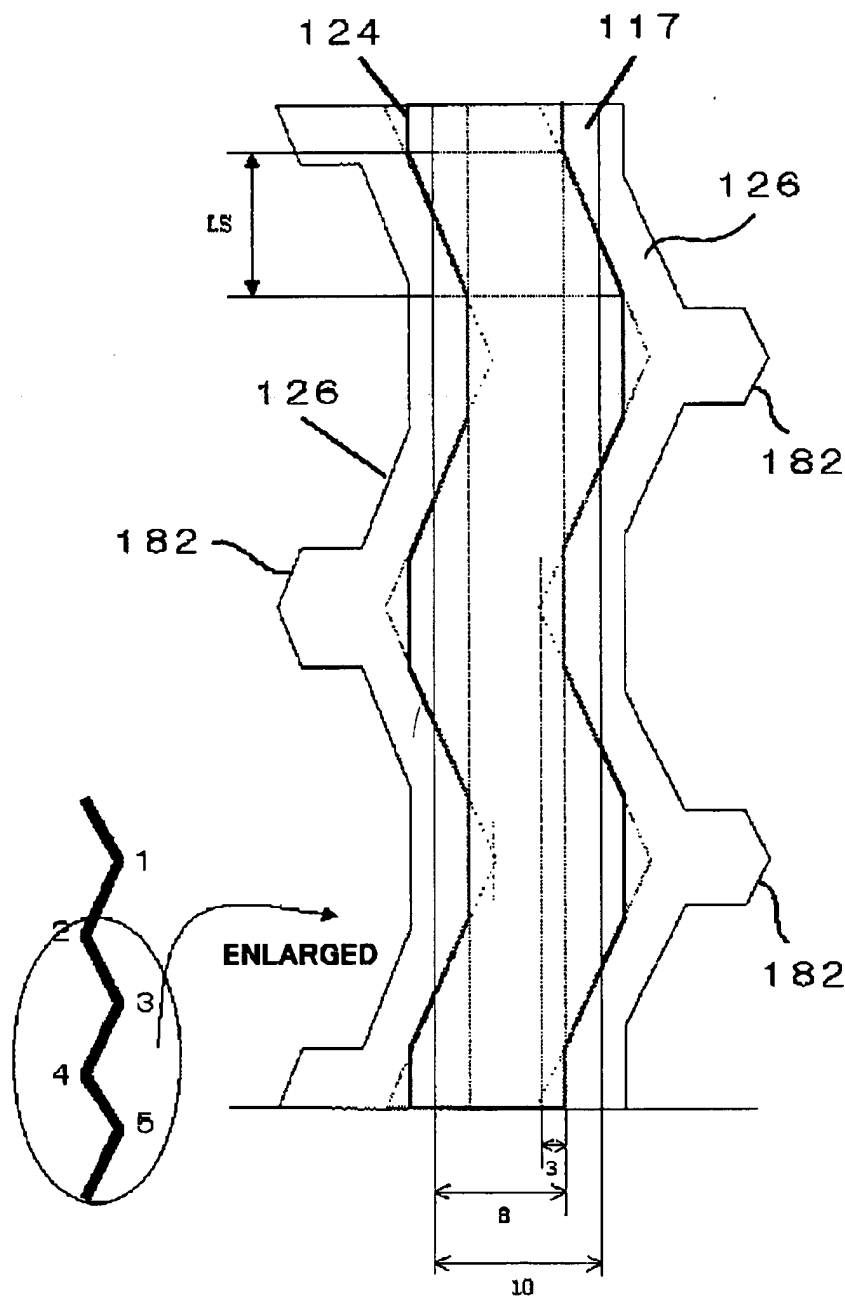


FIG.56



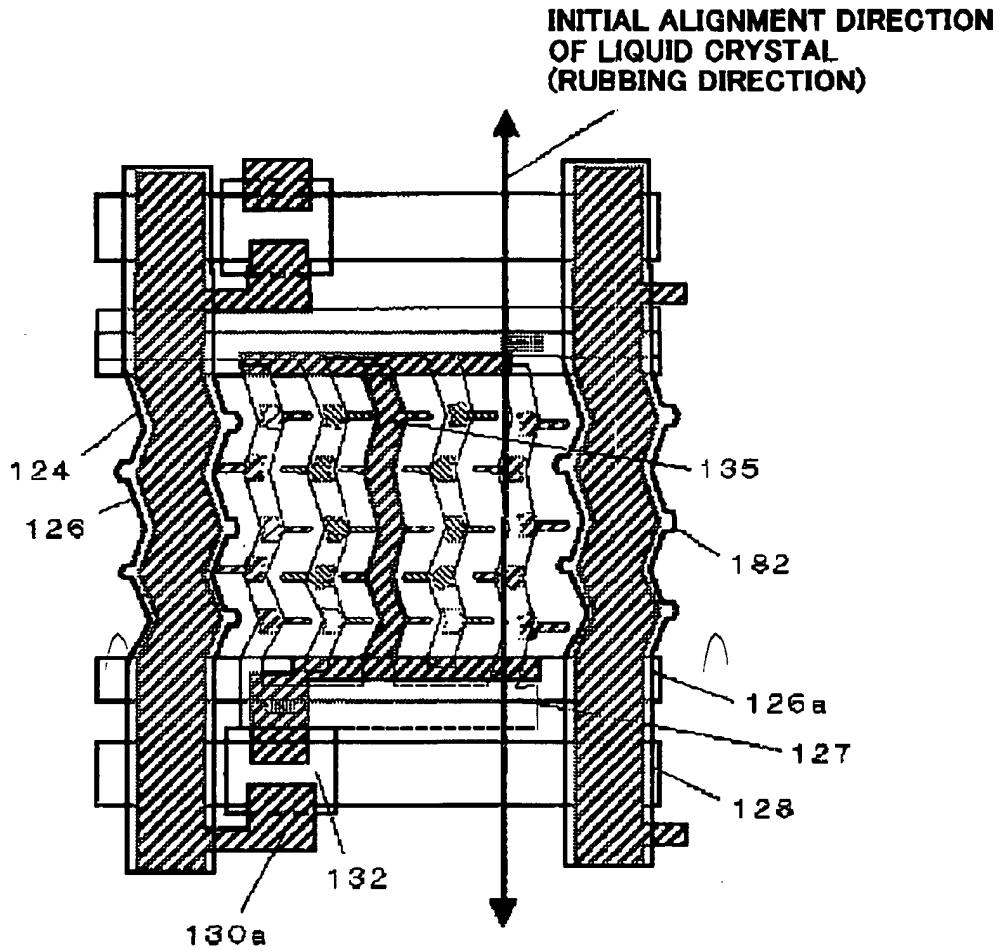
10081800.022202

FIG.57



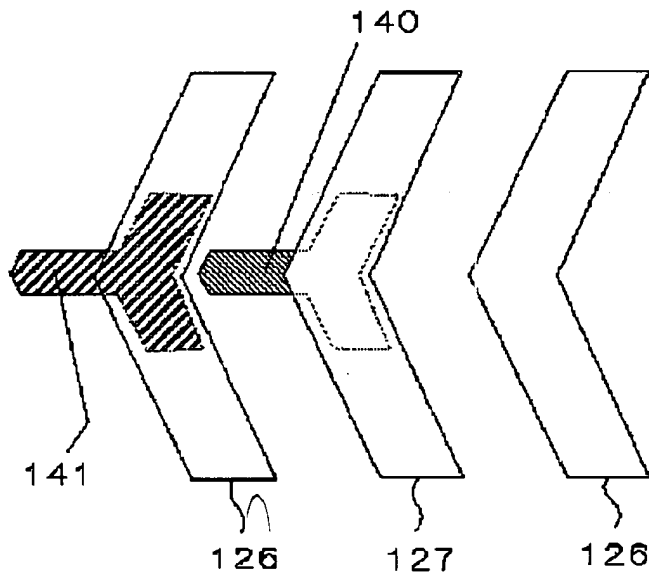
10081800.022202

FIG.58



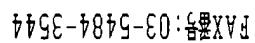
10081800.022202

FIG.59



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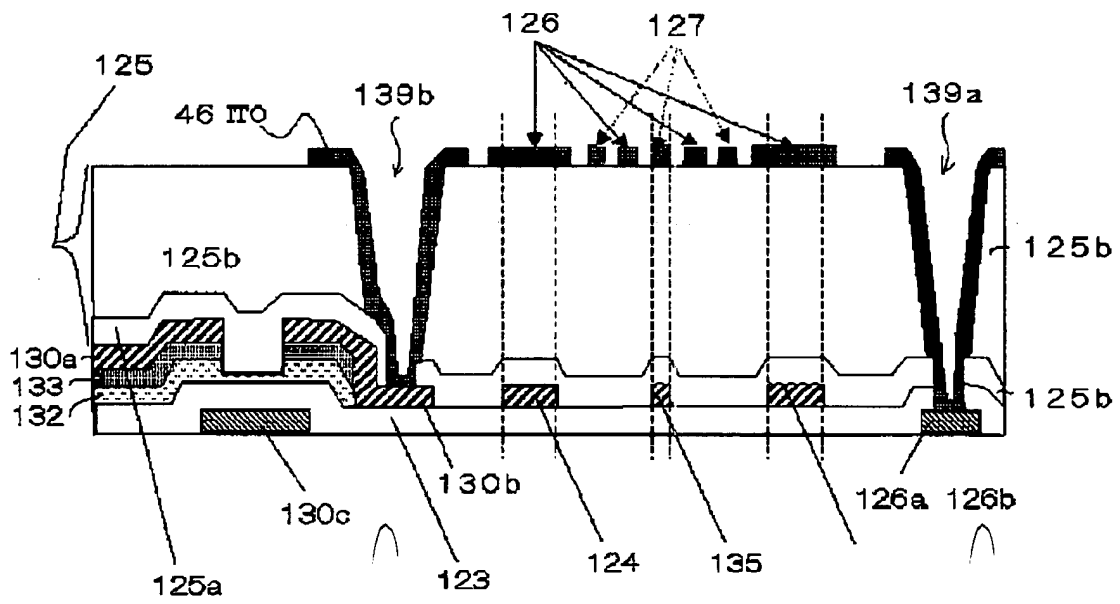
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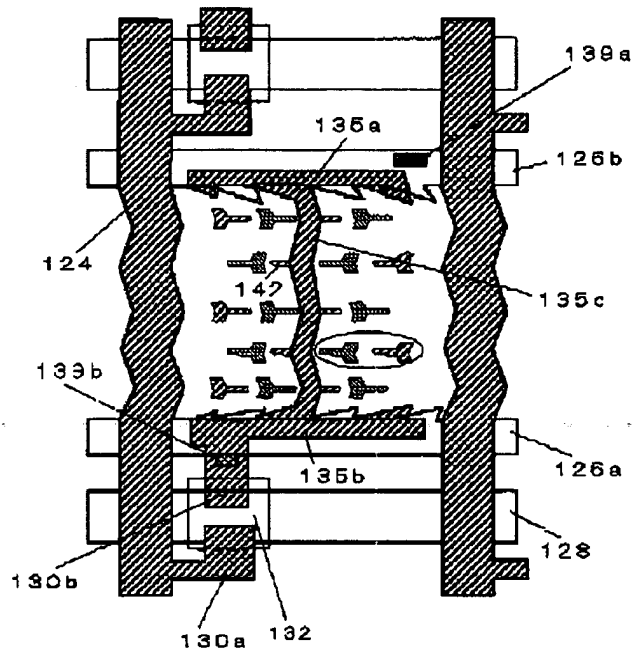
FIG.61



TFT REGION	PIXEL REGION	CONTACT HOLE REGION
(A-A)	(B-B)	(C-C)

FIG.62A

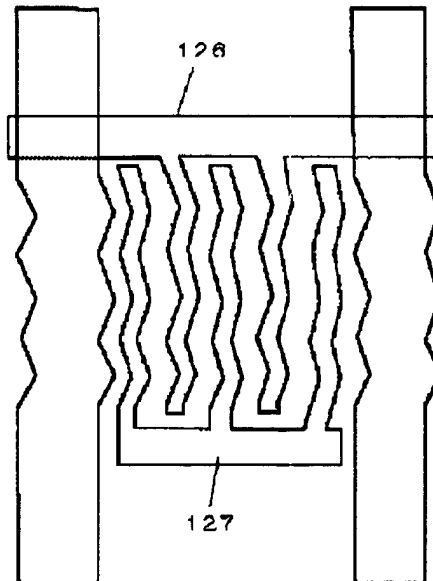
LAYERS OTHER  
THAN ITO LAYER



OVERLAPPED

FIG.62B

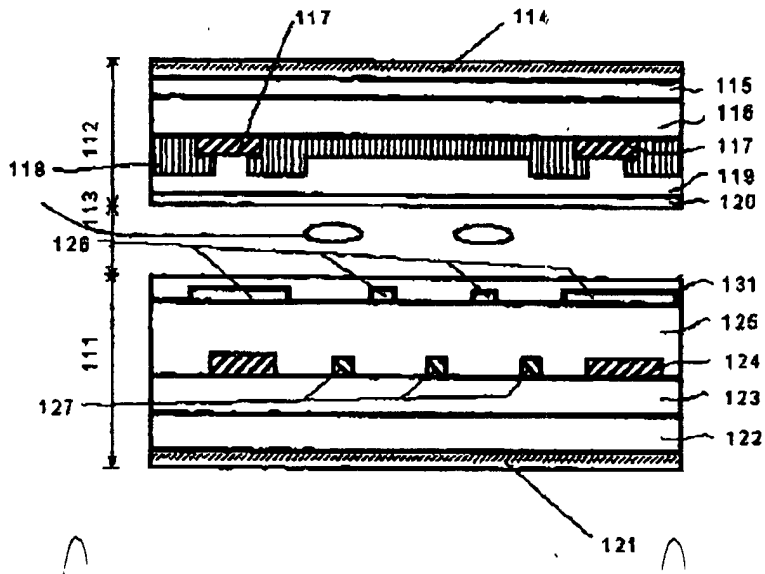
ITO LAYER



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FIG.63A

180

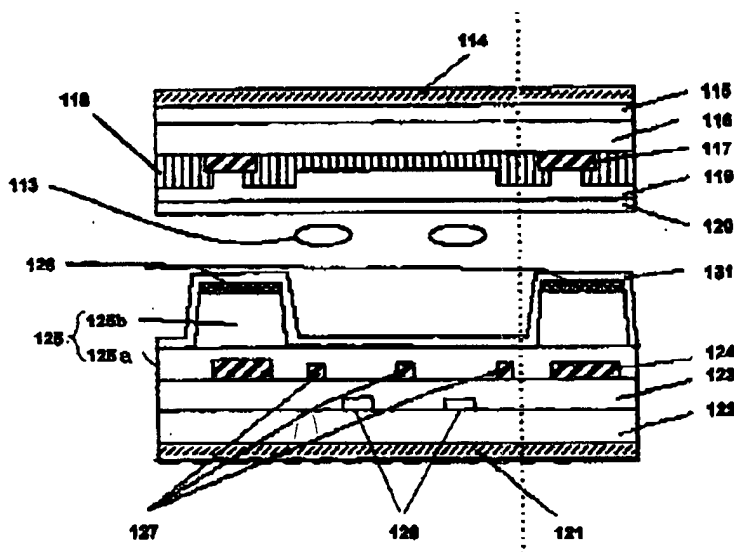


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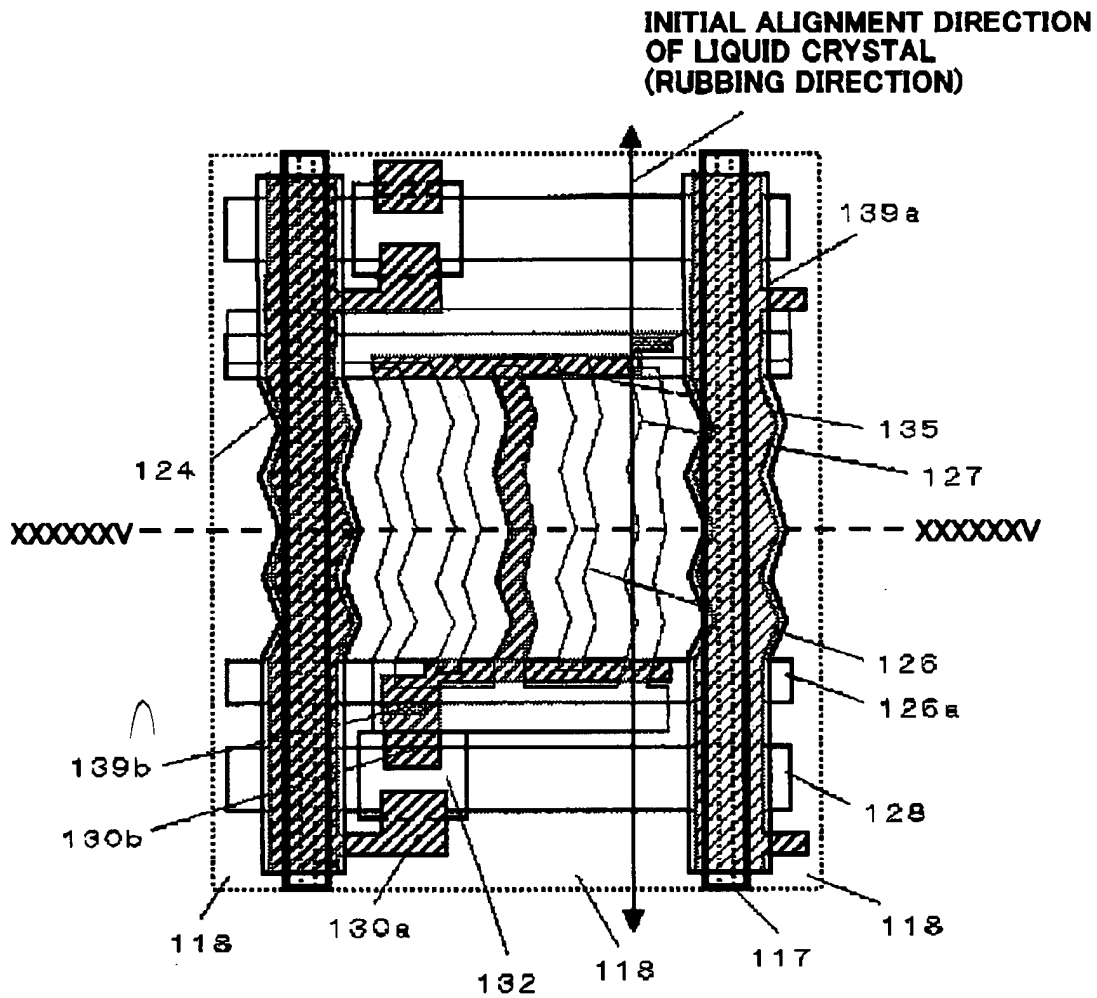
FIG.63B

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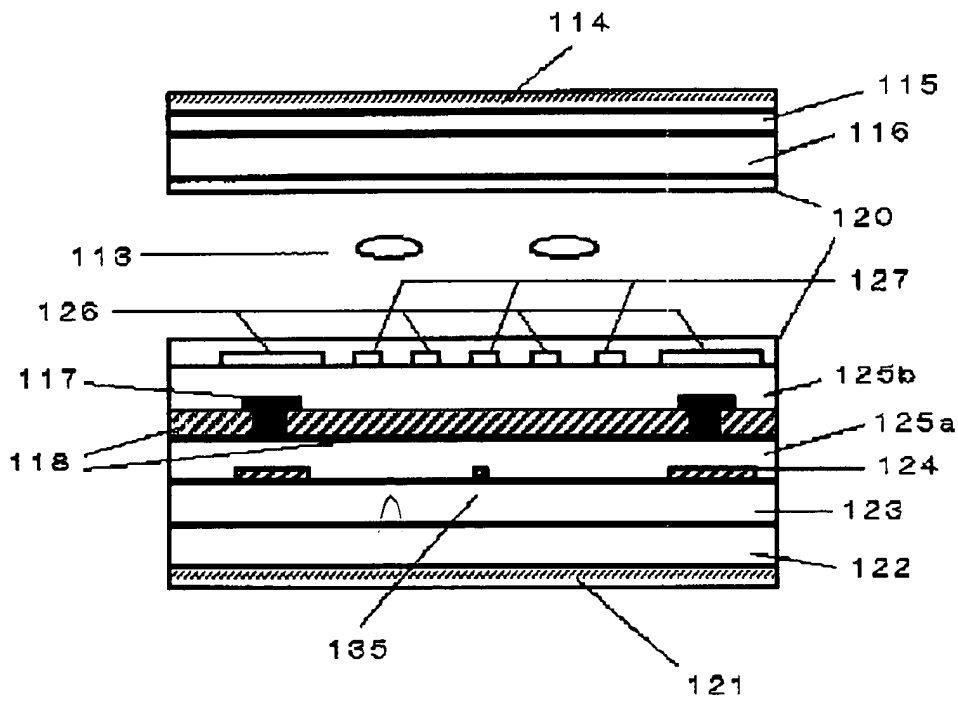
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FIG.64



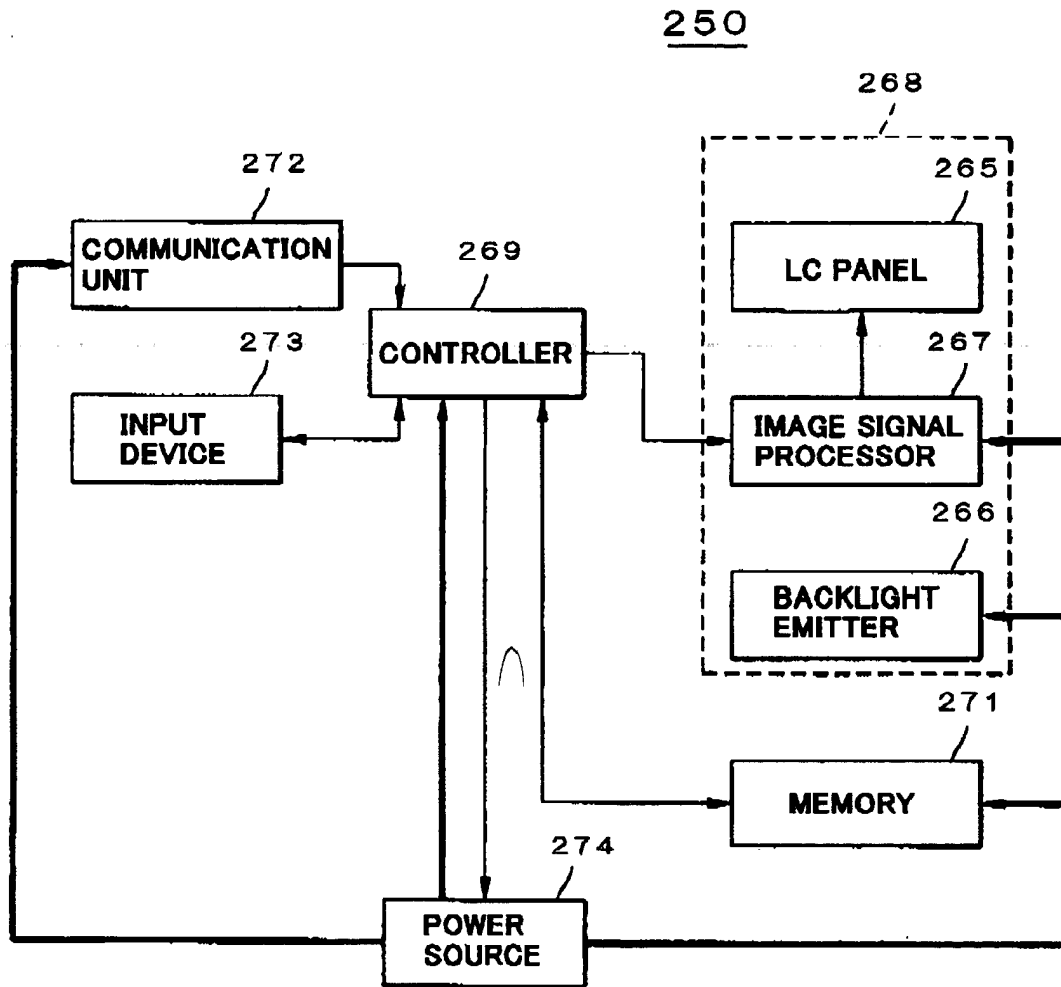
10081800.022202

FIG.65



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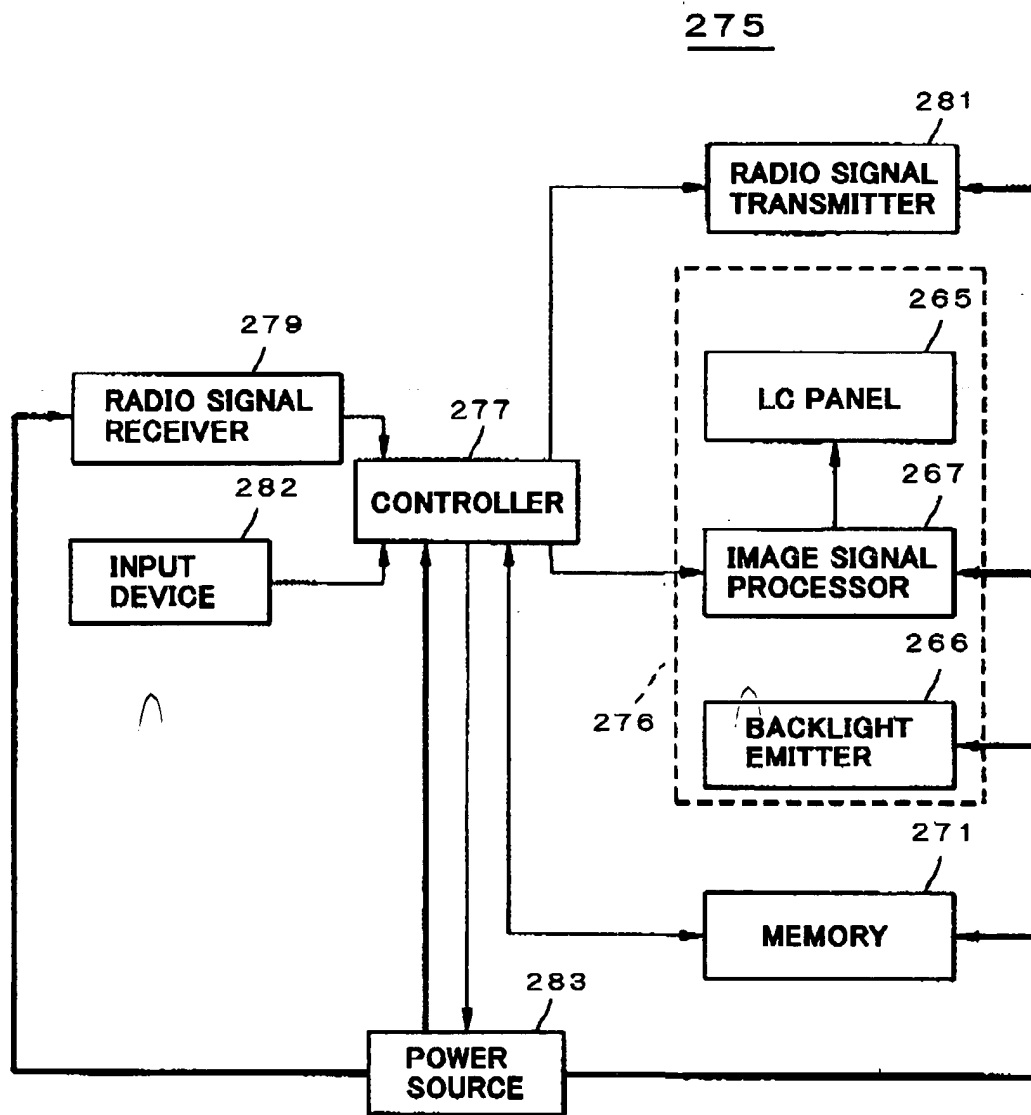
FIG.66



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FIG.67



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